## A revision of the statistics presented by the Committee on Tuberculosis / by T. A. Chapman.

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# MEDICO-PSYCHOLOGICAL ASSOCIATION OF GREAT BRITAIN AND IRELAND.

### A REVISION

OF THE

# STATISTICS PRESENTED BY THE COMMITTEE ON TUBERCULOSIS.

BY

T. A. CHAPMAN, M.D.

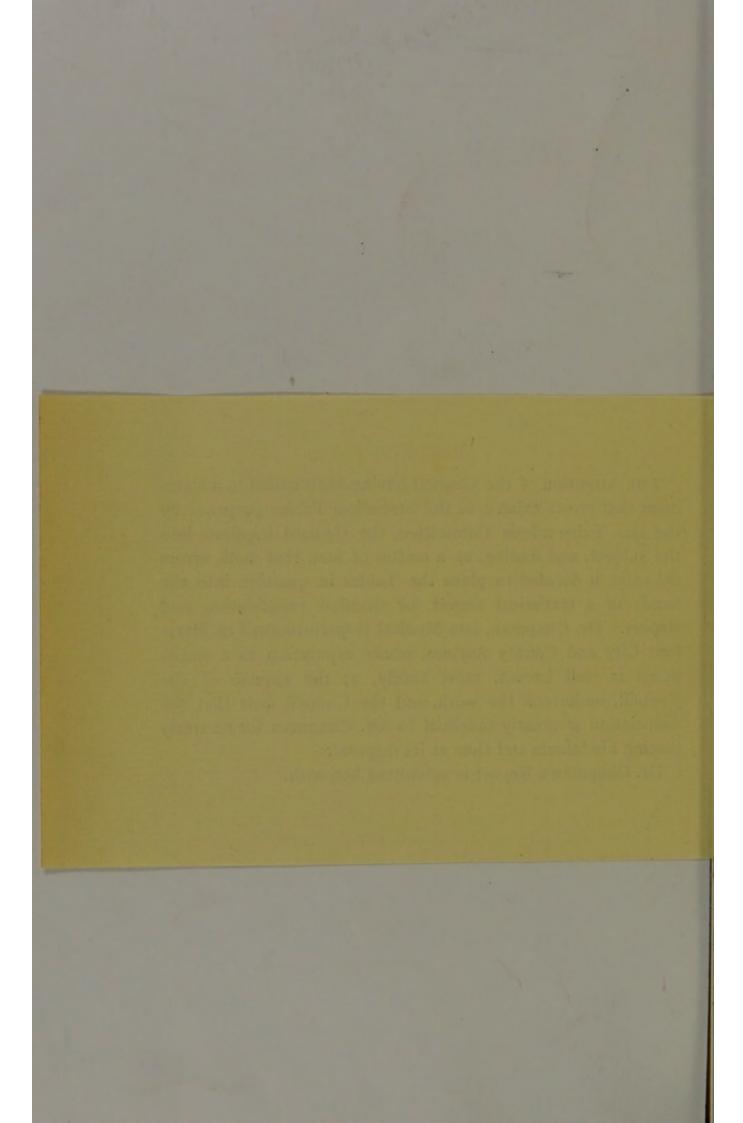


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THE attention of the Council having been called to a statement that errors existed in the Statistical Tables prepared by the late Tuberculosis Committee, the Council inquired into the subject, and finding, as a matter of fact, that such errors did exist, it decided to place the Tables in question into the hands of a statistical expert for detailed examination and Report. Dr. Chapman, late Medical Superintendent of Hereford City and County Asylum, whose reputation as a statistician is well known, most kindly, at the request of the Council, undertook the work, and the Council feels that the Association is greatly indebted to Dr. Chapman for so freely placing his talents and time at its disposal.

Dr. Chapman's Report is submitted herewith.



# A REVISION OF THE STATISTICS PRESENTED BY THE COMMITTEE ON TUBERCULOSIS.

By Dr. T. A. CHAPMAN,

Late Medical Superintendent of the Hereford Asylum.

THE Council of the Medico-Psychological Association, having found that certain of the statistical tables and calculations in the Report of the Committee on Tuberculosis presented in 1902 contained clerical and other errors, requested me to revise the figures, and I have undertaken the duty.

The schedules used by the Committee on Tuberculosis were placed in my hands, and I have gone through them with some care. I have not re-calculated every figure in the Tables, but have done so when any doubt arose. The revision submitted does not in any way traverse any conclusions and recommendations contained in the Report of the Committee on Tuberculosis, but, on the contrary, in several directions supports them more strongly.

The tables now submitted are-

Table A, substantially as in the Report of the Committee on Tuberculosis.

Table A<sub>1</sub>, giving in somewhat fuller detail the summary represented by Table A\* of the Committee on Tuberculosis.

Table A2, giving the totals on which Table A1 is calculated.

Table B, differing from that of the Committee on Tuber-culosis in the asylums being classified by their tubercular death-rates for five years and not on the tubercular death-rate for 1899. They are classified into a "better" (re tuberculosis) and "worse" division, according to whether the rate does not or does exceed 2 per cent.

Table B<sub>1</sub> summarises Table B.

Table C, giving a tabulation for English county and borough

asylums of the relation of admitted to indigenous cases of tubercle.

It may be noted that in Tables A, A<sub>1</sub>, A<sub>2</sub>, and C, the subject-matter being patients, the unit of calculation is the individual patient; whilst in B the subject-matter is asylums, and the individual asylum is the unit of calculation. Each asylum is a separate experiment, and it is practically immaterial whether the experiment is made on 250 or 2500 patients. Chance fluctuations in the small asylums and a want of homogeneity in the larger ones may reduce the accuracy of the figures, but do not affect their relative value, which must be assumed to be equal.

The table on p. 23 (p. 415 of JOURNAL) of the Committee's Report should read as follows:

#### In England:

| 111 2115                              |     |     | Average.                        |
|---------------------------------------|-----|-----|---------------------------------|
| I. { Dement and } Imbecile            |     |     | . 83                            |
|                                       |     |     | . 4                             |
| 261 1 11                              |     |     | . 31                            |
| 3. Melancholia . 4. General paralysis | 200 | 100 | . I3                            |
| 5. Epileptic .                        |     |     | . 21                            |
| In Scotland:                          |     |     |                                 |
| I. {Dement and Imbecile               |     |     | · 3½                            |
| 2. Mania                              |     |     | . 21/4                          |
| 3. Melancholia .                      |     |     | . 21/4                          |
| 4. Epileptic .                        |     |     | . 34                            |
| 5. General paralysis                  |     |     | . 0                             |
| In Ireland:                           |     |     | 100                             |
| ı. Mania                              |     |     | . 7                             |
| 2. { Dement and } Imbecile }          |     |     | · 4 <sup>3</sup> / <sub>4</sub> |
| 3. Melancholia .                      |     |     | . 44                            |

This portion of the statistics is of little interest, as there are

no correlative figures to give them any meaning.

The effect of size has also been re-calculated in Table D, using the five years' tubercular death rate instead of that for 1899. The results are substantially the same as those already given in Chart II.

One or two points as to which these figures emphasise or

vary the conclusions gathered from them by the Committee

on Tuberculosis may be referred to.

Table B<sub>1</sub> shows as to sites that the "better" asylums have a "good" soil in fully two cases out of three, whilst the "worse" have a "bad" soil in three cases out of four. This result varies in each subdivision, but is only contradicted in the case of the "better" Scotch asylums, where only three out of seven have a "good" soil.

The broad result here is so pronounced that the value of a

"good" soil can hardly be doubted.

The hours spent in the open air are greater in the "better" asylums throughout each of the five groups, the total figures for seventy asylums giving 6.6 hours for the "better" and 5.8 for the "worse"—a difference of 14 per cent. in favour of the better asylums.

As to day space, the "good" asylums have fractionally greater space, viz. by thirteen feet. It is not so in every group, and the total difference of thirteen feet is too small to

found any strong conclusions upon.

As to night space, the "good" asylums are better by fortyseven feet, nearly 8 per cent.—quite an appreciable and significant quantity; only in the borough asylums (seven in number) are there contrary figures.

Abundant space would appear to be more important at night than by day, probably because more continuously occupied.

Ventilation: in the "good" asylums artificial and natural ventilation are about equal, in the "worse" as three to seven—

ratios distinctly in favour of artificial ventilation.

Scotland votes to the contrary by six to one. Were Scotland omitted, then the "better" asylums vote fifteen to twelve in favour of artificial ventilation; the "worse" are in favour of natural by more than two to one (twenty-one to nine). This is very strong evidence that natural ventilation is insufficient. It may be noted that the Scotch asylums all have large night space, averaging 814 feet against an average of 680.

Tables C and C<sub>1</sub> tabulate figures given in the collected schedules, which, though collected with an obvious prevision of their value, were not reported by the Committee on Tuberculosis. They refer to the extent to which tubercle was detected on admission amongst the patients who died from

tubercular disease in 1800.

These figures may be studied from various points of view. Though in some few schedules the facts are not given, and in a few others appear to have been given without much investigation, they are on the whole apparently trustworthy.

They refer entirely to the deaths in 1899, and say nothing of patients suffering on admission from tubercle who recovered, nor of those who acquired tubercular disease in the asylums

but did not die.

The figures show that for every 100 cases admitted (and finally terminating fatally), 375 originated in the asylums.

It appears also that in the asylums with a higher tubercular death-rate a larger number were admitted with tubercle than in the "better" asylums. There is nothing to show how far this is due to the number of tubercular admissions being larger, or how far simply to fewer recoveries amongst them: we know that in some asylums tubercular cases do recover in considerable numbers.

The further remarkable fact comes out that in the "worse" asylums, though the admitted cases are more numerous, the indigenous are still more so.

In English county and borough asylums, in 30 "better" asylums (omitting fractions and using round numbers), where 5 cases are admitted 17 cases occur in the asylum; whilst in 24 "worse" asylums 9 cases instead of 5 are admitted; but the indigenous cases are not 17 as in the "better" asylums, nor 31, which would be proportionate to the 9 admissions, but 38. If the 9 "worst" be taken, then the admissions are 10; but the indigenous cases are not 17, nor 38, nor 42, as they would be if proportionate to the ratio in the "worse" asylums, but no less than 56.

In the remaining asylums—English, Scotch, and Irish (only twenty-four in number)—the admissions are much the same in each group, the excess in the "worse" asylums being entirely

due to indigenous cases.

Whatever detailed interpretation we may make of these figures, their broad meaning is clear, and that is that the more tubercle there is the more there will be.

Their practical teaching, therefore, is most unmistakably that the segregation of infected individuals is an imperative necessity.

As to other practical points, the well-known value of an

open well-drained soil is so fully illustrated that it must be more attended to in the future selection of sites for asylums; and though asylums now existing cannot be moved, it deserves the fullest inquiry in every case whether more might not be done by deep subsoil draining to improve the condition of asylums on heavy soils.

The association of natural ventilation with open fires is more frequent in the "worse" asylums. This may mean to some extent that these are older asylums, and may on that account be more liable to tubercular infection. But we must associate the fact that natural ventilation is much more usual in the worse asylums, with the significant exception of the Scotch asylums, which have natural ventilation but a very large night cubic space.

The practical deduction is that natural ventilation appears to be inefficient unless assisted by large cubic space, with especial reference to night conditions, when it probably often happens that warmth is maintained and draughts avoided by checking ventilation to a dangerous extent.

Although it may be unnecessary to give a detailed tabulation, it seems desirable to present some comparison of the ordinary rate of mortality with the tubercular death-rate. For this purpose the first fourteen (omitting two of under five years' existence) county asylums in Table B, having a tubercular rate not exceeding 1.5 per cent., are compared with the last fifteen in the same table, with a tubercular rate of 2.5 or over.

The figures are—

|       |     | verage num<br>resident. | ber | Average deaths. |     | erage tube<br>ular deaths | r- T | otal deaths | Tu | bercular deaths |
|-------|-----|-------------------------|-----|-----------------|-----|---------------------------|------|-------------|----|-----------------|
| First | 370 | 13,924                  |     | 1216.4          | *** | 185.6                     |      | 8.7         |    | 1.3             |
| Last  | 15  | 15,385                  |     | 1773.8          |     | 530.8                     |      | 11.7        |    | 3.2             |

If the tubercular deaths be subtracted, then the two groups contrast with an ordinary death-rate not of 8.7 and 11.7, but of 7.4 and 8.2—a difference of only 0.8 per cent. This 0.8 per cent., however, must be still further reduced, since an examination of the schedules shows that in a good many cases the tubercular deaths (not so certified) are but imperfectly returned, especially in the earlier years. The correction for this would probably be greater in the last than in the first group by something like the proportion of 3.5 to 1.3. It is also tolerably certain that when tubercle is in excess, either actual tubercle or the

causes favouring it would increase the death-rate without actually existing active tubercle at the date of death.

With a very moderate allowance for these two circumstances the o'8 would be much diminished, and it would appear that the difference of 3 per cent. in the death-rates of the two groups (one third more than that of the "better" group) is entirely, or almost entirely, due to the presence of tubercle and its causes.

The figures of the two Staffordshire asylums are sufficiently exceptional to suggest they should be eliminated. The result, however, is the same; without them the mortality of the second group becomes 10.9, with a correction for tubercle of 2.8, making the two groups 7.4 and 8.1 respectively, or a difference of 0.7 instead of 0.8 as before. The Staffordshire asylums alone give a similar result, the general mortality without tubercle being high, but not remarkable, viz. something like 10.5.

The inference from these facts seems to be that apart from tubercle the general health of the patients in both groups is not far from identical, and that the tubercle can hardly be due to any essential difference in the patients in the two groups of asylums, and cannot have any special connection with insanity, (1) but is causally associated with the individual

asylums.

Though the statistics give some very definite indications, they fail to completely solve most of the questions they raise. For example, under present conditions it would appear that six and a half hours in the open air is more efficient in avoiding tubercle than merely six hours. There can, however, be little doubt that if infective cases were isolated, and ventilation and cubic space satisfactory, as much as even six hours would be by no means essential to a low tubercular rate. Probably if night space were 2500 feet, grave defects of ventilation, etc., would be comparatively innocuous, and so on. The practical question is, What is a necessary minimum in each of these items, so that the combined effect shall be elimination of tubercular disease at a minimum cost?

There is nothing to show that if isolation were efficiently enforced the mass of the "better" asylums, at least, are not adequately equipped in most of the other respects already.

<sup>(1)</sup> Phthisical insanity is, of course, but a small component in these figures.

A fuller statistical inquiry than the present would probably confirm and define more clearly any conclusions that the present one points to, but would probably not alter them to any material extent. Further light might be got—and this course seems decidedly suggested by the relations shown between imported and indigenous cases—by a careful examination and comparative study of the conditions prevailing in a selected few of the "better" and "worse" asylums.

No analysis has been made of the dietaries. A careful comparison of the dietetic conditions in, say, five (or ten) of the "better" and as many of the "worse" asylums, both from a table d'hôte and from a laboratory standpoint, would have some

value.

The following appear to be the most important deductions from the statistics:

 That infection is one of the strongest causative elements in the prevalence of tuberculosis in asylums.

2. That a healthy (dry and well-drained) site is of extreme importance. The value of a good site is well known, but asylum authorities do not appear to be aware that

it is so great as these statistics show.

- 3. The causes of tuberculosis in asylums inhere in the asylums themselves, and not in the character of the patients sent to them. This must be very generally true, since the exceptions, and possibly very marked exceptions, that individual asylums no doubt present, make so little mark on the statistics.
- 4. That time spent out of doors, cubic space indoors, ventilation, etc., all appear on the side of the account one would expect, but by margins usually too small to be very significant. It would seem that probably all these are inadequate, even in the "better" asylums, for the proper treatment of tuberculosis, but that, on the other hand, they are possibly sufficient even in the "worse" asylums if tubercular taint were absent. The only detail hinted with any definiteness is that, with our present habits and prejudices, due ventilation can hardly be obtained without artificial means and artificial heating in dormitories giving less than 800 feet per head.



#### TABLE A .- Showing Statistics respecting Tuberculosis, as compiled from Schedules.

GROUP I .-- ENGLAND AND WALES.

|   |        | 1                                  |        |       | 3  |        |        | 3        |        |       | 4  |        | 4/                                |       | 5   |        | 5A  |      | 6                       |   |      |                  |      |       |                            | 7      |       |         |       |
|---|--------|------------------------------------|--------|-------|--|--------|--------|----------|--------|-------|--|--------|-----------------------------------|-------|---|--------|---|------|-------------------------|---|------|------------------|------|-------|----------------------------|--------|-------|---------|-------|
| COUNTY<br>ASYLUMS.                              | Reside | age Dail<br>ats, 5 ye<br>5 to 1896 | ars.   | of Di | per cent.<br>kaily Res<br>LATHS fro<br>L CATSES,<br>Years. | 10,    | Active | THE ITOU | n.     | ALI   | per cent.<br>Study Res<br>satus from<br>causes,<br>1899. |        | Com-<br>paring<br>1899<br>withAv. | Acres | per cent.<br>Daily Res<br>sarms will<br>a Tourne<br>1899. | 28     | Com-<br>paring<br>1899<br>with Av.<br>of 5 yes. | i od | RESTR<br>n Asy<br>these | ength<br>swcs<br>lums<br>Case<br>in g). | 4    |                  |      | Cases | ANITE<br>s, dyin<br>(Colum | ng in: | 1800  | f these |       |
|   | M.     | F.                                 | Total. | 34.1  | F.   | Fotal. | М.     | F. 1     | Fotal. | M.    | F.   | Total. |                                   | 34.   | P.  | Fetal. |   | М    |                         | P                                       |      |                  | G.P. | Man.  | Mel.                       | Ep.    | Dem.  | Imb.    | Other |
| EDS, HERTS, AND HUNTS.                          | 0.     | -0.                                |        |       |  | 1000   | 100    | 2'2      | 2'     | 12'3  | 12'2   | 122    | +17                               | 1'5   | 28  | 21     | + '1  | Yrs. | Mos.<br>O               | Yn.                                     | Mos. | ſ M.             |      |       | 2                          | 1      | 3     | 1       |       |
| 1. Arlesey                                      | 483    |                                    | 1005   | 11.3  | 10   | 88     | 19     | 18       | 18     | 11'4  | 10'  | 107    | +1'0                              | 1.1   | 17  | 1'4    | - 4   | 5    | 7                       | 6                                       | 8    | ) F.             | 4    | 5     | -                          | 3      | -     | 2       |       |
| 2. Moulsford                                    | 207    | 329                                | 596    | 9'9   | 78   | 95     | 14     | 111      | 1'2    | 12'0  | 9'   | 107    | +1'2                              | 1.8   | 7   | 12     | Ave-  | 4    | 3                       | 9                                       | 4    | M.               | 1    |       |                            | 2      | 101   |         |       |
| 3. Aylesbury                                    | 243    | 275                                | 520    | 9     | 8  | 84     | 1'5    | 16       | 1'5    | 10'4  | 7  | 85     | +0'1                              | 16    | 2'  | 18     | rage<br>+ '3                                    | 8    | 0                       | 4                                       | 3    | F.               |      | -     | 1                          | I      | 2     |         |       |
| 4. Fulbourne<br>ESTER.<br>5. Upton              | 334    | 384                                | 718    | 12.8  | 9.9  | 11'4   | 3.6    | 2'3      | 3      | 121   | 12'5   | 123    | + 19                              | 42    | 3'2   | 36     | + 16  | 8    | 3                       | .5                                      | 7    | M.               | 2    | 4     | 1                          | 2      | 7     | 1       | 2     |
| 6. Bodmin West-                                 | 345    | 425                                | 770    | 81    | 7  | 77     | 2'3    | 2'3      | 5.3    | 87    | 8.7  | 8.7    | + 11                              | 3'4   | 3'3   | 33     | +11   | 13   | 1                       | 12                                      | 8    | F.               | 4    | 1     | 4                          | 3      | 6     | 1       |       |
| 7. Carlisle                                     | 325    | 294                                | 619    | 8     | 8.5  | 8.1    | 18     | 3'5      | 2.4    | 7'2   | 6.8  | 69     | - 1'2                             | 3"    | 3.6   | 3.3    | + .0  | 8    | 8                       | 3                                       | 5    | F.               |      | 5     | 3                          | 1      | 1     | 1       |       |
| S. Denbigh                                      | 326    | 338                                | 664    | 108   | 8.6  | 97     | 3      | 36       | 3'3    | 9.    | 9  | 9      | - 7                               | 2.5   | 3'3   | 2.9    | - '4  | 7    | 8                       | 5                                       | 7    | F.               |      | 5 4   | 5                          |        | 2     | 1       |       |
| g. Derby<br>EVON.                               | 284    | 287                                | 571    | 138   | 10.6   | 12'2   | 28     | 3'5      | 32     | 17:3  | 10'2   | 138    | +1.6                              | 4'4   | 4.8   | 46     | +1'4  | 3    | 7                       | 3                                       | 8    | F.               |      | 3     | 5 2                        |        | 2     | 3       |       |
| 10. Exminster                                   | 448    | 645                                | 1093   | 8:7   | 6  | 7.2    | 2'1    | 1.9      | 2.     | 6.9   | 5'2  | 6.3    | 0                                 | 1:    | 1.2   | 1.3    | - 7   | 24   | 0                       | 12                                      | 0    | F.               |      | 6     | 2                          | 2      |       | 3       |       |
| 11. Angelton                                    | 350    | 256                                | 606    | 14    | 5'9  | 10.2   | 1.1    | 8        | 10     | 14    | 37   | 9.7    | 8                                 | 2     | 4   | 1.3    | + 3   | 6    | 9                       | 0                                       | 2    | F.               |      | 1 6   |                            |        | 10    | 3       |       |
| 12. Parc Gwylt                                  | 390    | 421                                | 811    | 8:2   | 8.3  | 8.3    | 2.5    | 2'3      | 2'4    | 10'   | 8.9  | 9'4    | +1'2                              | 28    | 1'3   | -      | - '4  | 3    | 11                      | 5                                       | 4    | ( F.             | 111  | 3     | -1                         |        | 4     | 1       |       |
| 11 and 12 combined                              | 740    | 677                                | 1417   | 10.8  | 7.6  | 9'2    | 19     | 16       | 1.8    | 117   | 7.2  | 9'5    | + '3                              | 2.5   | 1.  | 1.7    | - 1   | 0    | 0                       | 0                                       | 0    |                  |      |       |                            |        |       |         |       |
| Loucester                                       | 495    | 564                                | 1059   | 12'3  | 92   | 107    | 2.*    | 1'2      | 16     | 12'9  | 8.9  | 10/8   | + 1                               | 2.2   | 1.8   | 2      | + 14  | 7    | 2                       | 9                                       | 6    | { M.             |      | 3     | 2 4                        |        | 3 2   | 5       |       |
| IANTS.<br>14. Farcham                           | 476    | 554                                | 1030   | 11'2  | 8  | 9'4    | 1.7    | 19       | 18     | 12.2  | 8:4  | 10'2   | + -8                              | 18    | 1.3   | 1.2    | 3   | 8    | 0                       | 4                                       | 3    | { M. F.          | 1    | 2 2   | 3                          | 1      | 4     | 1       |       |
| HEREFORD.<br>15. Hereford                       | 181    | 201                                | 382    | 7.5   | 5.5  | 6.5    | 1.8    | 1'3      | 1:5    | 12'3  | 6.6  | 9'3    | +28                               | -6    | 3'5   | 2'2    | + 7   | 11   | 0                       | 6                                       | 0    | { M. F.          |      | 2     | 1                          | 3      |       | 1       |       |
| CENT.<br>16. Barming Heath                      | 665    | 938                                | 1603   | 148   | 9  | 1114   | 4.8    | 2.8      | 3.6    | 16    | 12'1   | 131    | + 1'7                             | 4'4   | 3'5   | 38     | + '2  | 7    | 3                       | 8                                       | 9    | F.               | 2    | 8     | 3                          |        | 20    | 4       |       |
| 17. Chartham                                    | 442    | 534                                | 976    | 10.2  | 77   | 8-8    | 27     | 1.6      | 27     | 7.8   | 9.5  | 8.6    | 5                                 | 3     | 1'9   | 2.4    | + .3  | 4    | 6                       | 7                                       | 6    | { M.<br>F.<br>M. | 2    | 3     | 2                          |        | 7     | 1       |       |
| LANCASHIRE.<br>18. Lancaster                    | 651    | 1324                               | 1975   | 99    | 7  | 79     | 2'3    | 1.6      | 1.8    | 68    | 7.7  | 7'4    | - '5                              | 1"    | 3.3   | 18     |   | 5    | 11                      | 4                                       | 0    | { F.             | 1    | 3     | 9                          | 7      | 9     | 3       |       |
| 19. Rainhill                                    | 943    | 964                                | 1907   | 13.5  | 7'5  | 10'4   | 59     | 4'2      | 5      | 14.4  | 7.1  | 107    | + '3                              | 6.    | 3.2   | 47     | 3   | 3    | 6                       | 5                                       | 4    |                  |      |       |                            |        |       |         |       |
| 20. Whittingham<br>LEICESTER AND RUTLAND.       | 991    | 947                                | 1938   | 1114  | 10.1   | 10.7   | 1.8    | 3'4      | 2.6    | 8.7   | 11.8   | 10.5   | - '5                              | 2'    | 5'4   | 3.7    | +1.1  | 7    | 5                       | 8                                       | 8    | ſ M.             | 1    |       |                            | 2      | 2     | -       |       |
| 21. Leicester<br>LINCOLN.                       | 224    | 264                                | 488    | 127   | 8.4  | 10°2   | 36     | 3        | 3.3    | 13.8  | 11'5   | 126    | + 2'4                             | 3'4   | 3.2   | 35     | + '2  | 11   | 6                       | 6                                       | 8    | F.               | 1    | 2 4   | 2                          | 1 2    | 4     | 1       |       |
| 22. Bracebridge<br>LONDON.                      | . 349  | 372                                | 721    | 151   | 11.6   | 13'3   | 19     | 2.2      | 1.8    | 176   | 141  | 8      | +2'4                              | 3     | 31  | 13     | +12   | 5    | 9                       | 15                                      | 5    | F.               | "1   | 6     | 4                          | 2      | 3     | 1       | 3     |
| 23. Banstead                                    |        | 1548                               | 2480   | 13    | 54   | 78     | 2.8    | 1'4      | 2"     | 971   | 71   | 8      | + 1                               | 2"1   | 1.2   | 17     | + '2  | 3    | 7                       |   | 0    | F.               | 3    | 6     | 3                          | 2      | 4     | 1       | 3     |
| 24. Cane Hill                                   | 923    | 1233                               | 2156   | 9:6   | 7.4  | 79     | 16     | 1.5      | 1.2    | 11'9  | 8 1  | 94     | + 5                               | 1.7   | 0   | 13     | - '3  | 4    | 8                       | 3                                       | 6    | M.               | 2    | 3     | 3                          | 2      | 6     | 1       |       |
| 25. Colney Hatch                                | 912    | 1549                               | 2459   | 14'5  | 0.5  | 116    | 3 11   | 23       | 26     | 126   | 93   | 107    | - '9                              | 3.5   | 2"  | 25     | - 1   | 2    | 8                       | 3                                       | 3    | M.               | 8    | 6     | 6 8                        | 1      | 11    | 1       |       |
| 26. Claybury                                    | 848    | 1339                               |        | 11.2  | 7  | 87     | 1'5    | 11       | 13     | 11'4  | 79   | 91     | + '4                              | 17    | 1'5   | 16     | + 3   | 4    | 3                       | 6                                       | 1    | M.               | 2 5  | 2 4   | 6 8                        | 2      | 4 6   |         |       |
| MIDDLESEX.<br>28. Wandsworth                    | . 556  |                                    |        | 1113  | 8  | 9      | 1:31   | 17       | 1.2    | 1111  | 8.2  | 9'5    | + '5                              | 2"    | 2'  | 2      | + '5  | 4    | 8                       | 6                                       | 1    | { M. F.          | 2    | 2 8   |                            | 3 2    | 4 3   | 1 2     |       |
| Norrolk.<br>29. Thorpe                          | 338    |                                    | 815    | 12.6  | 89   | 10.2   | 1.8    | 1.5      | 1'5    | 8.4   | 9'5  | 91     | -114                              | -6    | 11  | 18     | - 7   | 18   | 0                       | 4                                       | 0    | { M.<br>F.       | 100  | 3     | 1                          | ***    | 1     |         |       |
| NORTHUMBERLAND.                                 | 343    | 277                                | 620    | 111   | 12   | 11'4   | 38     | 6        | 4.8    | 14'2  | 16.1   | 15     | +36                               | 4.6   | 4"  | 4      | - 8   | 7    | 11                      | 5                                       | 1    | F.               | 2    | 111   | 3 2                        | 1      | 6     | 1       | 5     |
| Norrs.<br>31. Nottingham                        | 180    | 175                                | 355    | 128   | 8:5  | 10.7   | 28     | 23       | 2.5    | 107   | 11.2   | 116    | + .6                              | 33    | 4.5   | 4      | + 115   | 6    | 5                       | 3                                       | 3    | F.               | 1    | 1     | 1                          | 1      | 3     | 1       |       |
| Oxford.<br>32. Littlemore                       | . 222  | 315                                | 537    | 14.5  | 96   | 111    | 1.14   | 9        | 111    | 11.3  | 10'6   | 109    | - 1                               | -8    | 3   | '5     | - '5  | 2    | 0                       | 6                                       | 0    | F.               |      |       |                            | 1      | 1     |         | 1     |
| SALOP AND MONTGOMERY.  33. Shrewsbury Somerset. | 371    | 451                                | 822    | 11:6  | 96   | 10.5   | 1.6    | 2'4      | 2.1    | 13.2  | 10.9   | 1119   | + 174                             | 2"    | 4.5   | 3'4    | +1'3  | 2    | 6                       | 6                                       | 0    | F.               |      | 2     | 3                          | 4      | 5     | 4 2     | 3     |
| 34. Wells                                       | 37     | 5 515                              | 891    | 111   | 8  | 9.5    | 1/3    | 1.6      | 1'4    |       | 9  | 103    | + '8                              | 1'2   | T   | 111    | - 3   | 9    | 6                       |   | 3    | F.<br>M.         | 2    | 2     |                            | -      | 2     | 1       |       |
| 35. Cotford<br>STAFFORD.                        | 16.    | 45 18:                             | 346    | 7.4   |  | 6.3    | 10     | 114      | 1.5    | 9.5   | 7.6  | 8.4    | +21                               | 1.2   | 66  | 51     | + 15  | 1    | 3                       |   | 5    | F.<br>M.         | 1    | 3     | 2 2                        | 4      | 4     | 2       |       |
| 36. Burntwood                                   | 39     |                                    |        |       |  | 157    | 47     | 56       | 52     |       | 16'4   | 201    | -2                                | 376   |   | 86     | +27   | 6    | 1                       | 4                                       | 9    | l F.             | 1    | 7     | 3                          | 8      | 6     | 4       |       |
| 37. Stafford<br>SUPPOLK.                        | 51     |                                    |        |       | 15   | 16.5   | 5.5    | 6.4      | 27     | 13.3  | 10   | 116    | +30                               | 115   | 7.3   | 1.7    | -1  | 4    | 0                       | 7                                       | 0    | { M.             |      | 1     |                            | 3      |       |         |       |
| 38. Woodbridge<br>SURREY.                       | 27     |                                    |        |       | 26   |        | 25     | 3 2'4    | 2.5    | 1 300 | 7  | 98     | - 4                               | 2.8   | 2"  | 26     | + 1   | 2    | 0                       | 5                                       | 0    | L.F.             |      |       | 2                          |        | 3     | 21      |       |
| SUSSEX (WEST).                                  | 42     | 76 19                              |        |       |  | 6.5    | 18*    | 16       | 12     | 83    | 5'4  | 67     | + 12                              | 9     | -8  | 8      | - 4   |      | 6                       | 2                                       | 0    | { M.             |      |       | 1                          | 1      | 1     |         |       |
| 40. Chichester<br>WARWICK.<br>41. Hatton        | 37     |                                    |        | 9 200 |  | 11'9   | 24     | 17       | 119    | 12'5  | 8.5  | 10     | -119                              | 3     | 2"  | 2'4    | + '5  | 8    | 1                       | 4                                       | 6    | { M. F.          |      | 3     | 2                          | 2      | 2 2   | 4       | 3     |
| WIGHT, ISLE OF.<br>42. Newport                  |        | 8 12                               |        |       |  |        | 17     | ci       | 1'4    | 127   | 3'4  | 69     | -18                               | 27    | -6  | 114    |   | 0    | 11                      | 2                                       | 6    | M.F.             | 101  | 1     | ***                        | 1      |       |         |       |
| WILTSHIRE.                                      | 30     | 6 44                               | 0 80   | 6 9:  | 2 7  | 8      | 1.3    | 171      | 1'2    | 9     | 8.8  | 8.9    | + 9                               | 3     | 10  | 7      | - 5   | 0    | 4                       | 4                                       | 7    | F.               |      | 1     | 2                          |        | 2     |         |       |
| WORCESTERSHIRE.                                 | 47     | 71 60                              | 3 107  | 4 91  | 6 7:   | 8.4    | 2.1    | 212      | 21     | 9.2   | 71   | 8      | - '4                              | 3"    | 3.3   | 26     | + '5  | 7    | 0                       | 4                                       | 2    | F.               | 4    | 1     | 6                          | 2 2    | 3     | 3       |       |
| Youxanire.<br>45. Clifton                       | 3.     | 53 35                              | 2 73   | 5 111 | 6 8.   | 10.    | 3      | 23       | 20     | 15:7  | 9.1  | 11.4   | +1'4                              | 2.6   | 2.8   | 2.7    | + '1  | 4    | 2                       | 10                                      | 6    | F.               | -    | 4     | 2 6                        | 1 2    | 3 2 8 |         | 1     |
| 46. Wakefield                                   | 7      | 07 69                              | 5 140  | 2 13  | 1 8  | 10.8   | 28     | 1.8      |        | 100   |  | 91     | - 17                              | 1     | 7   | 1.0    |   | 4    | 11                      | 7.                                      | 6    | F.               |      | 1 2   | 1 2                        | 6      | 2     | 6       | 1     |
| 47. Wadsley                                     | 7      | 36 88                              | 32 161 | 8 13  |  |        |        | 1.7      |        |       |  | 11:6   | 1                                 | 1     | 18  | 2.3    |   | 3    | .0                      |   | 3.   | F.               | 1    | 5 2   | 2 2                        | 2      | 6     | 2       |       |
| 48. Menston                                     |        | 62 79                              |        |       |  |        |        | 16       | 17     |       |  |        |                                   |       | 25  | 0.0    | - 6   | 8    | 9                       | 7                                       | 3    | l F              | 2    | 2     | 2                          | 2      | 9     | 4       |       |
| 49. Beverley                                    | 10 1   | 81 2                               | 47 42  | 18 9  | 6  | 4 7.5  | 14     | 10       | 13     | 130   | 39   | 30     | 1                                 | 1 .   |   |        | -   | 1    |                         |   |      | ∫ M.<br>F.       | 111  |       | 1'5                        |        | 36    |         | 3     |

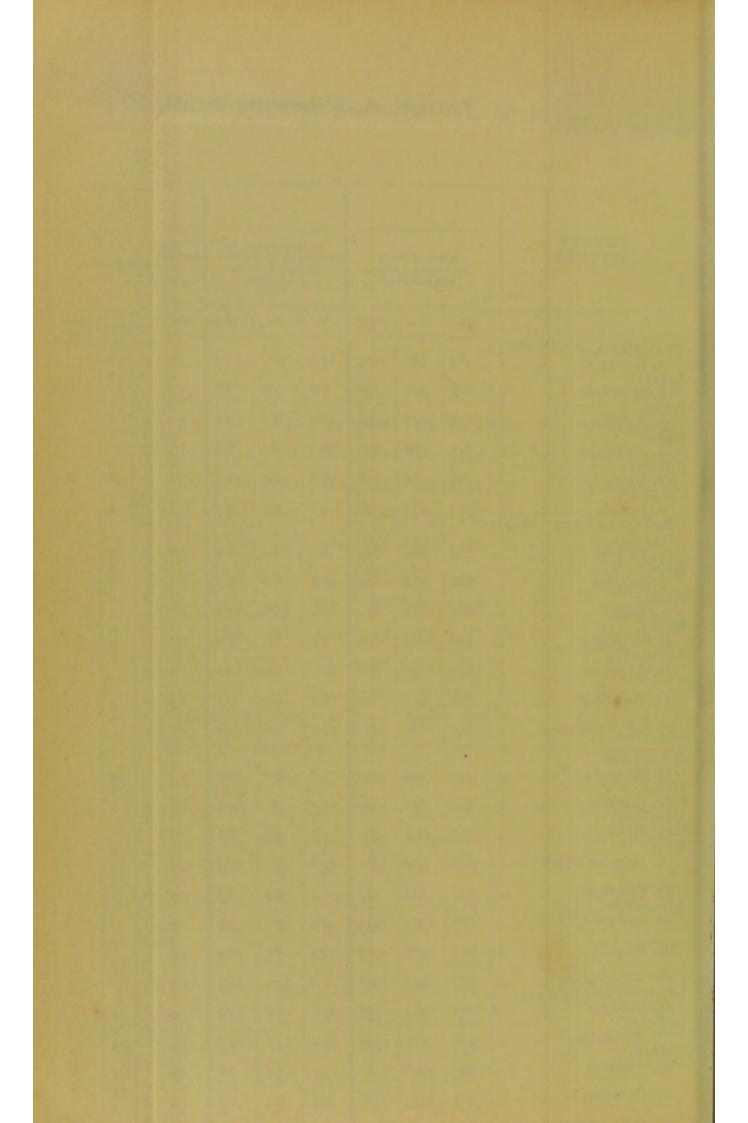


TABLE A.

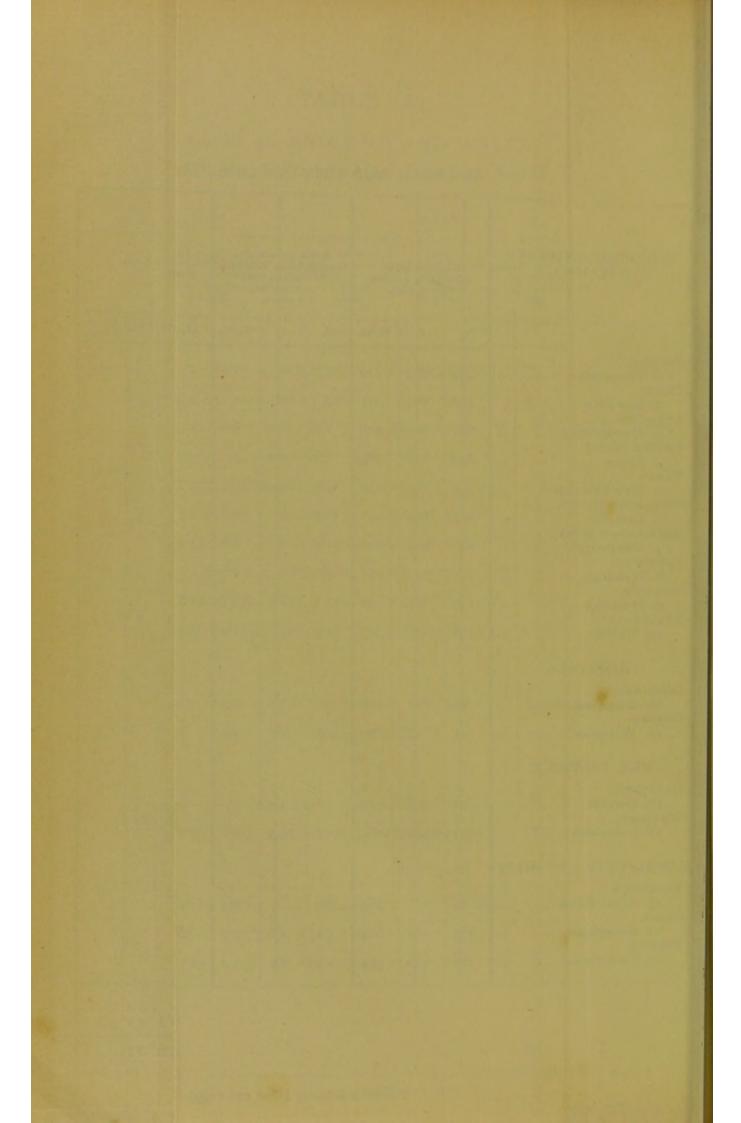
### GROUP 2.—ENGLAND AND WALES.

BOROUGH AND CITY ASYLUMS, HOSPITALS, METROPOLITAN DISTRICT NAVAL, CRIMINAL, AND IDIOT ASYLUMS.

|  |       | 1                      | 1      |       | 2  |        |                         | 3   |                          |                 | 4   |                 | 4A   |                 | 5  |          | 5A  |        |                         | 5  |          |                    |       |      | 7                          | 7               |      |     |                 |
|--|-------|------------------------|--------|-------|--|--------|-------------------------|---|--------------------------|-----------------|---|-----------------|--|-----------------|--|----------|---|--------|-------------------------|--|----------|--------------------|-------|------|----------------------------|-----------------|------|-----|-----------------|
| BOROUGH AND CITY<br>ASYLUMS.             | Resid | erage Da<br>lence, 5 : | years, | of D  | per cent<br>Daily Re<br>EATHS fr<br>L CAUSES<br>5 years. | om .   | Average<br>of I<br>Acti | o per cen<br>Daily Ro<br>DEATHS fr<br>VE TUBE<br>§ years. | esidents<br>rom<br>RCLE. | Average<br>of D | per cen<br>Daily R<br>PEATHS II<br>L CAUSE<br>1899. | esident><br>rom | Com-<br>parison<br>of 1899<br>withAv.<br>of § yrs. | Average<br>of L | Daily R<br>Daily R<br>SEATHS five Tunes<br>1899. | es dent: | Com-<br>parison<br>of 1899<br>with Av-<br>of 5 yrs. | 0      | Rest<br>in As<br>f thes | length<br>bence<br>ylums<br>c Case<br>mn 5). | 5        |                    |       | Cas  | anity<br>es dyii<br>(Colur | ng in<br>nn 5). | 1899 |     |                 |
|  | M.    | F.                     | Total. | M.    | F.   | Total. | M.                      | F.  | Total.                   | M.              | F.  | Total.          |  | M.              | F.   | Total.   |   | N      |                         | F.   | _        |                    | -     | Man. | Mel.                       | _               |      |     | Other<br>forms. |
| BRISTOL.                                 | 357   | 373                    | 730    | 12.8  | 10'  | 11'4   | 2'                      | 1.8   | 1.0                      | 19'7            | 13'5  | 16.4            | + 5"   | 3.2             | 1.2  | 2.3      | + '4  | Yrs.   | Mos.                    | Yrs.   | 2        | { M.<br>F.<br>∫ M. | 6 1 2 |      | 1                          | 2               | 2    | 1   |                 |
| I. Fishponds DERBY.                      | 152   | 165                    | 317    | 12    | 10.  | 11.    | 1'9                     | 2'9   | 2'4                      | 12.7            | 11'2  | 11.0            | + '9   | 1.3             | 2.3  | 1.8      | 6   | 0      | 7                       | 6  | 0        | { F.               | I     | 3.   |                            |                 |      |     |                 |
| 2. Rowditch<br>Leicester.                | 249   | 201                    | 540    | 7'2   | 6.5  | 6.6    | I.                      | .9  | 1.                       | 74              | 3.7   | 5'4             | -1'2   | -8              | .7   | -7       | 3   | 3      | 6                       | 5  | 0        | ſM.                |       |      |                            |                 |      |     |                 |
| 3. Humberstone<br>London (CITY).         | 235   | 244                    | 479    | 8.8   | 5'2  | 7      | -6                      | '4  | .5                       | 9.6             | 5'4   | 7'4             | + '4   | .8              |  | '4       | 1   | 6      | 3                       |  |          | F. M.              | 1     |      | 2000                       | 1               | 1    |     | 1               |
| 4. Stone<br>YORKS.                       | 92    | 84                     | 176    | 15'5  | 9.4  | 12'4   | 1.7                     | 3.1   | 2'4                      | 17              | 10'   | 13.6            | + 1'2  | 2'5             | 4"   | 3'2      | + .8  | 1      | 1                       | 0  | 8        | F. M.              | 6     |      | 1 3                        | 2               | 1 3  |     |                 |
| 5. Middlesbrough * Newcastle (City).     | 227   | 264                    | 491    | 14'4  | 8.   | 10.8   | 4.7                     | 1.2   | 3"                       | 13.2            | 41  | 8.3             | -2.2   | 6.              | .8   | 3.5      | + '2  | 2      | 3                       | 4  | 10       | F. M.              |       | 2    | I                          |                 |      | 1   |                 |
| 6. Gosforth<br>NOTTINGHAM (CITY).        | 1     | 324                    | 616    | 11'4  | 7  | 8.8    | 1'3                     | 1.5   | 1'2                      | 12'2            | 6.  | 9.              | + '2   | 2.              | 1'4  | 1.7      | + '5  | 2      | 3                       | 6  | 1        | F. M.              | 3     | 1    |                            |                 | 3    |     |                 |
| 7. Mapperley PLYMOUTH. 8 Lyphridge       | 1     | 141                    | 252    | 8.6   | 8.   | 8.1    | 1.0                     | 2.1   | 2'                       | 10'             | 11'   | 10.4            | + 2.0  |                 | 2.6  | 1.2      | - '5  |        |                         | 6  | 1        | { F.               |       | 1    | 2                          |                 | 1    | 1   |                 |
| 8. Ivybridge<br>Norwich.<br>q. Hillesdon | 1     |                        |        | 14'3  | 11'9   | 13.1   | 1.6                     | 1'2   | 1'4'                     | 15'             | 10,   | 12'3            | 8  | 2.8             | -6   | 1.4      | + .3  | 6      | 3                       |  |          | ſ M.               | 1     | 1    | 3                          |                 | 1    | 1   |                 |
| SUNDERLAND.<br>10. Ryhope                | 116   |                        | 303    | 11.9  | 12'  | 11'9   | 3'4                     | 1.0   | 2'7                      | 16              | 10.0  | 13.2            | +1.6   | 41              | 1.8  | 3.       | + .3  | 3      | 0                       | 2  | 0        | { F.               |       |      | 2                          |                 | 1    |     |                 |
| HOSPITALS.                               |       |                        |        |       |  |        |                         |   |                          |                 |   |                 |  |                 |  |          |   |        |                         |  |          | ſ M.               |       |      |                            |                 |      |     |                 |
| GLOUCESTER.<br>11. Barnwood House        | 65    | 191                    | 256    | 6.6   | 1'2  | 2.2    | '7                      | '2  | .2                       | 6.              | 6.  | 6.              | + 3'5  |                 | 1.   | -6       | + .1  |        |                         | 26   | 0        | { F.               |       |      |                            |                 | 1    |     |                 |
| Oxford.                                  | 41    | 49                     | 90     | 7.5   | 2.4  | 4'4    | '2                      |   | .1                       | 10.             | 2'  | 5'5             | + 1.1  |                 | ***  |          | 1   |        |                         |  |          |                    |       |      |                            |                 |      |     |                 |
| MET. DISTRICT.                           |       |                        |        |       |  |        |                         |   |                          |                 |   |                 |  |                 |  |          |   |        |                         |  |          | ſ M.               |       | 1    |                            |                 |      | 7   |                 |
| DARTFORD.                                | 107.  | 4 936                  | 5 2010 | 3.6   | 4'4  | 4      | -8                      | † '9  | -8                       | 3.3             | 3.8   | 3.2             | - '5   | -7              | .8   | -7       | - 1   | 10     | 11                      | 8  | 1        | F. M.              |       |      |                            | 6               | 16   | 5   |                 |
| WATFORD.                                 | 89    |                        |        |       |  |        | 3.8                     | 1 2.3   | 3.                       | 13.6            | 12  | 12.8            | + 2.5  | 4.8             | 2.8  | 3.8      | + '8  | 8      | 0                       | 9  | 0        | { F.               | 1     |      |                            | 4               | 17   | 8   |                 |
| NAVAL, CRIM. AND IDIO                    |       |                        |        |       |  |        | 1                       |   |                          |                 |   |                 |  |                 |  |          |   | 1      |                         |  |          |                    |       |      |                            |                 |      |     |                 |
| YARMOUTH.                                |       |                        |        | 1     |  | 0      | PI                      |   | 1.1                      | 0.              |   | 9.              | + .6   | 2.6             |  | 2.6      | +1'5  | 8      | 0                       |  |          | { M. F.            | 4     |      |                            | ***             | 1    |     | 1               |
| Berks.                                   | 18    |                        |        |       |  |        | 1                       |   | .3                       |                 | 1'2   |                 | - 7  |                 |  |          | 3   | 1      |                         |  |          |                    |       |      |                            |                 |      |     |                 |
| REDHILL.                                 | 47    |                        |        |       |  |        |                         | 3'5   |                          |                 | 3.9   |                 | - '1   | 1.8             | 2.8  | 2.3      | - 1   |        |                         |  |          |                    |       |      |                            |                 |      |     |                 |
| 17. Earlswood                            | 37    | 8 18                   | 6 56   | 4 2'9 | 3.7  | 3.     | 1                       | 33  |                          | 1               |   |                 | 1  | 1               |  |          |   | 1      |                         | Acules                                       | W. C. of | ſ M.               | 1'9   | -7   | .5                         | .9              | 2'   | 2'2 |                 |
|  |       |                        |        |       |  |        |                         |   |                          |                 |   |                 |  |                 |  |          | Avera   | ige 10 | 112                     |  |          |                    | .3    | -    | -6                         | _               | 2'3  |     |                 |
|  |       |                        |        |       |  |        |                         |   |                          |                 |   |                 |  |                 |  |          |   |        |                         | Tot  | tal      | 100                | 2.3   | 1.1  | 1.1                        | 1.4             | 4'3  | 37  |                 |
|  |       |                        | - m    |       |  | 0.0    | -0>                     |   |                          |                 | + No  | P.M.'s          | recorde  | d.              |  |          | 1   | P.M.'  | s for                   | 1897   | only.    |                    |       |      |                            |                 |      |     |                 |

\* Two years only (1898 and 1899).

† No P.M.'s recorded.



#### TABLE A.

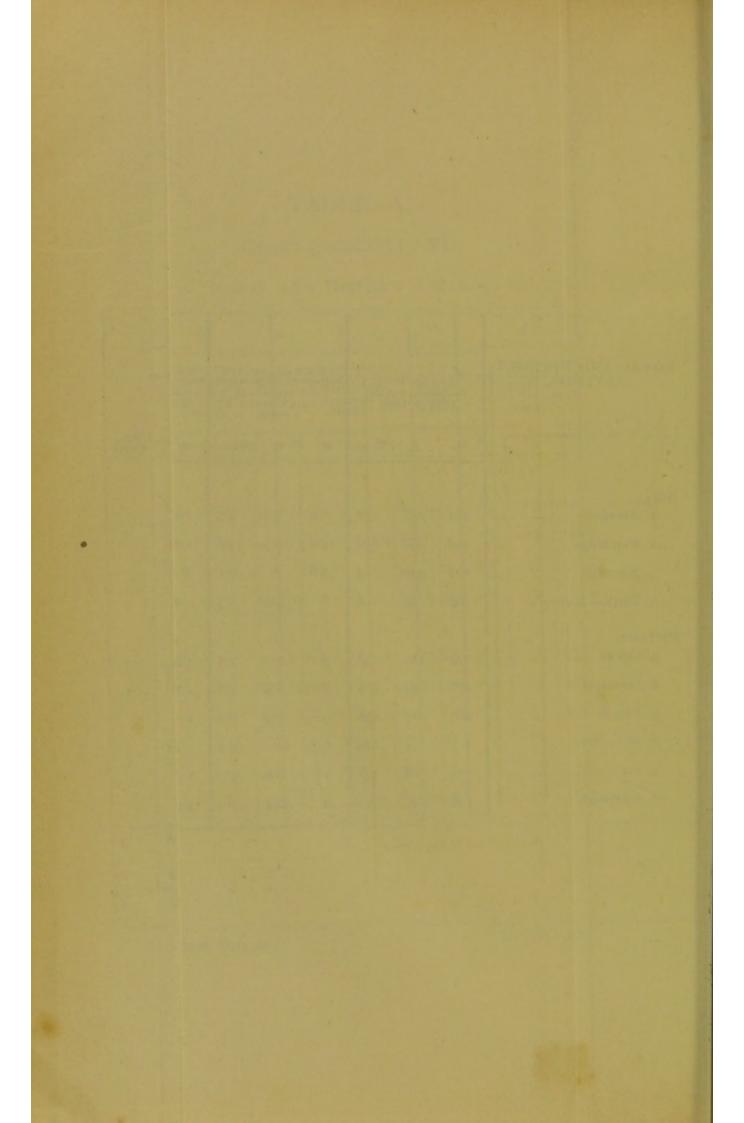
GROUP 3.—SCOTLAND.

ROYAL AND DISTRICT ASYLUMS.

|                                 |        |     |            | 1                               |            |                 | 2  |                       |                         | 3   |                            |                 | 4   |                         | 4.4   |        | 5  |                   | 5A  |        | (                       | 5  | -      |                      |      |              |             | 7      |             |          |                 |
|---------------------------------|--------|-----|------------|---------------------------------|------------|-----------------|--|-----------------------|-------------------------|---|----------------------------|-----------------|---|-------------------------|---|--------|--|-------------------|---|--------|-------------------------|--|--------|----------------------|------|--------------|-------------|--------|-------------|----------|-----------------|
| ROYAL AND D<br>ASYLUM           |        | ICT | Resid      | erage D<br>lents, §<br>os to 18 | years,     | Average<br>of I | o per cen<br>Daily R<br>DEATHS f<br>LL CAUSE<br>§ years. | esidents<br>rom<br>s. | Average<br>of I<br>Acre | o per cer<br>Daily I<br>DEATHS !<br>VE TURE<br>§ years. | Residents<br>from<br>RCLE. | Average<br>of I | io per ce<br>Daily F<br>DEATHS I<br>LL CAUSE<br>1899. | Residents<br>rom<br>is. | Com-<br>parison<br>of 1899<br>with Av.<br>of 5 yrs. | Averag | io per cer<br>e Daily F<br>DEATHS V<br>IVE TURE<br>1899. | desidents<br>with | Com-<br>parison<br>of 1899<br>with Av.<br>of 5 yrs. | of     | Resin<br>n Asy<br>these | ength<br>ENCE<br>lums<br>Cases<br>nn 5). |        |                      | FORM | of In<br>Cas | es dvi      | v at E | 1800        | of these | e               |
|                                 |        |     | M.         | F.                              | Total.     | M.              | F.   | Total.                | М.                      | F.  | Total.                     | M.              | F.  | Total.                  |   | М.     | F.   | Total.            |   | M.     |                         | F  |        |                      | G. P | . Man        | . Mel.      | Ep.    | Dem         | Imb.     | Other<br>forms. |
| ROYAL.  1. Aberdeen             |        |     | 334        | 427                             | 761        | 9.9             | 6.6  | 7'9                   | 1'4*                    | 1,  | 1.5                        | 11.3            | 7'9   | 9'4                     | + 1'5   | 2'4    | 1.2  | 1.9               | + '7  | Yrs. N | los.<br>I I             | Yrs.                                     | Mos. 3 | M.<br>F.             |      | 1            | 2<br>I      | 1 2    | 3 4         | 2        |                 |
| Edinburgh     Montrose          |        |     | 445<br>274 | 452<br>340                      | 897<br>614 | 9.6             | 7.   | 8.1                   | 1.8†                    | 2'  | 1.0                        | 9.8             | 7   | 11.2                    | - ·1  | 1.8    | 1.3  | 1'6               | + ·1  | 2      | 0                       | 8  | 6      | M.<br>F.<br>M.<br>F. |      | 3 3          | 3<br>4<br>3 |        |             | 1<br>3   | 1               |
| 4. Perth.—Mur                   | rray's |     | 65         | 55                              | 120        | 8.              | 4'4  | 5'5                   | -6                      | 4'  | -5                         | 10.             | 5.2   | 7.7                     | + 2.2   | 2'9    | 1.9  | 2'4               | + 1.0   | 1      | 0                       | 0  | 1      | M.<br>F.             |      | 3            |             |        | 1           |          | 1               |
| DISTRICT. 5. Govan 6. Inverness |        |     | 133<br>266 | 119                             | 252<br>515 | 9°<br>6·8       | 5' 8'4   | 7°4<br>7°6            | 1.5*                    | 1.5   | 1'3                        | 12.6            | 9.  | 7.7                     | + 3.6   | 1.7    | 2.6  | 2'1               | + '8  | 1      | 7                       | 1 2                                      | 6 {    | M.<br>F.<br>M.       |      | 3            | 3           | 1      | 2 2 2       |          | 1               |
| 7. Lanark<br>8. Midlothian      | ***    |     | 265        | 213                             | 478        | 9.8             | 7'9  | 8.4                   | 1.5                     | -6  | '9                         | 14'5            | 7'2   | 10.0                    | + 2.5   | 1.1    | .7   |                   | Avge.   | 2      | 3                       | 0  | 3 {    | F.<br>M.<br>F.       |      | 1            |             | 2      | 3<br>1<br>1 | ***      | 1               |
| 9. Perth                        |        |     | 175        | 168                             | 343        | 8·3             | 0.0  | 9.2                   | 1.9                     | 1.5   | 1'4                        | 11.3            | 16.4  | 6.6                     |   | 3.5    | 1.9  | 1.8               | + '5  | 0      | 8                       | 6  | 4 {    | F.<br>M.<br>F.       |      |              | 1           | 1      | <br>2<br>1  | 2        | 1               |
| 10. Roxburgh                    | ***    |     | 126        | 149                             | 275        | 8.              | 6.4  | 7                     | 1.8                     | 1.6   | 1.4                        | 10.             | 7   | 8.3                     | + 1.3   | 3.6    | 1.0  | 2.6               | + 0.0   | 8      | 11                      | t  | 10 {   | F.                   |      | 3            | 2           |        | 1           |          |                 |
|                                 |        |     |            |                                 |            |                 |  |                       |                         |   |                            |                 |   |                         |   |        |  |                   | lverage   | for to | Α                       |  | -      | M.                   |      |              |             |        | 1'2         | 3        | .3              |
|                                 |        |     |            |                                 |            |                 |  |                       |                         |   |                            |                 |   |                         |   |        |  |                   | rverage   | 101 10 |                         | otal                                     |        | F                    |      | 2.1          | 2.2         | '2     | 2'4         | 1'0      | '5              |

\* P.M.'s for 1899 only.

† No P.M.'s recorded.



#### TABLE A.

GROUP 4.—IRELAND. DISTRICT AND CRIMINAL ASYLUMS.

| DISTRICT AND                     |    |      | 1                                 |                       |          | 2  |                   |                 | 3   |                            |                 | 4                                   |                         | 4A  |      | 5   |                  | 5A                                     | 1     |      | 6              |          |              |      |              |                            | 7      |        |        |      |
|----------------------------------|----|------|-----------------------------------|-----------------------|----------|--|-------------------|-----------------|---|----------------------------|-----------------|-------------------------------------|-------------------------|---|------|---|------------------|--|-------|------|----------------|----------|--------------|------|--------------|----------------------------|--------|--------|--------|------|
| DISTRICT AND<br>CRIMINAL ASYLUMS | S. | Resi | erage Di<br>dents, 5<br>895 to 18 | aily<br>years,<br>99. | Average  | io per ce<br>e Daily I<br>DEATHS :<br>LL CAUSE<br>5 years. | Residents<br>from | Average<br>of I | Daily I<br>Daily I<br>DEATHS<br>VE TUBB<br>§ Year | Residents<br>from<br>RCLE, | Average<br>of I | Daily<br>DEATHS<br>LL CAUS<br>1899. | Resident<br>from<br>gs. | Com-<br>s parison<br>of 1899<br>with Av-<br>of 5 yrs. | of l | io per ce<br>e Daily I<br>DEATHS<br>IVE TURE<br>1899. | Resident<br>from | Com-<br>sparison<br>of 1899<br>with Av |       |      | ylum:<br>e Cas | es<br>es |              | For  | м of I<br>Са | NSANIT<br>ISES dy<br>(Coli | ing is | 1800   | of the | se   |
|                                  |    | М.   | F.                                | Total.                | М.       | F.   | Total.            | M.              | F.  | Total.                     | М.              | F.                                  | Total.                  |   | M.   | F.  | Total.           |  | -     | M.   |                | F.       | -            | G. F | . Mar        | . Mel                      | Eo.    | Dem    | Limb   | Othe |
| DISTRICT.                        |    |      |                                   |                       |          |  |                   |                 |   |                            |                 |                                     |                         |   |      |   |                  |  |       |      |                |          | -            |      |              |                            | -      | - Jein | -2110  | form |
| 1. Belfast                       |    | 497  | 384                               | 881                   | 6.8      | 6.5  | 6.7               | '7 †            | 1.3   | .0                         | 78†             | 9.3                                 | 8.6                     | +1'9  | 1.6  | 1.8   | 1.6              | + '7                                   | Yrs.  | Mos. | Yrs.           | Mos.     | ∫ M          |      | 4            | 2                          |        | 1      | 1      |      |
| 2. Cork                          |    | 711  | 666                               | 1377                  | 7        | 8.3  | 7.7               | 211 *           | 4   | 3.                         | 8.8 *           | 9.7                                 | 9.2                     | +1.6  | 2.7  | 4'2   | 3'4              | + 4                                    |       | 0    | 2              | 6        | I F.         |      | 10           | 2 5                        |        | 2      | I      | I    |
| 3. Limerick                      |    | 302  | 299                               | 601                   | 7.6      | 7.7  | 7'6               | 1.7 ‡           | 3.5   | 2'5                        | 10.3 ‡          | 11.6                                | 10.8                    | + 3'2   |      | 6.0   | 4.6              | + 2'1                                  | 1 3   |      |                |          | { F.         |      | 15           | 8                          |        | 7      |        |      |
| 4. Meath                         |    | 425  | 295                               | 720                   | 5'9      | 7.4  | 6.6               | 1.2             | 3.1   | 2.3                        | 5.2             | 6                                   | 5'7                     | -0.0  | 1'7  |   |                  | 1000000                                | 7     | 0    | 5              | 0        | ſ M.         |      |              |                            |        |        |        |      |
| 5. Waterford                     |    | 223  | 201                               | 424                   | 8.6      | 6.7  | 7.7               | 2'              | 1.  | 1'5                        | 8.2             | 4.8                                 |                         |   |      | 2'4   | 2                | - '2                                   | 9     | 1    | 5              | 3        | 1 F.         |      | 2            | 3                          | <br>I  | 3 2    | 1      |      |
| 6. Wexford                       |    | 246  | 182                               | 428                   | 7        | 6.   | 6.5               | 1'2 *           | .9  | 1.                         | 7'3             | 5'2                                 | 6.3                     | - 1.3   | 3.2  | 1.3   | 1'4              | + '7                                   | 4     | 0    | 9              | 0        | { M.<br>∫ M. |      | 2 2          |                            | 1      | 1      |        |      |
| CRIMINAL.                        |    |      |                                   |                       |          |  |                   |                 |   |                            |                 |                                     |                         |   | - 4  |   | . 4              | 7 4                                    | 1     | 0    | ***            |          | { F.         |      | -            |                            | ***    | 1      | 2      |      |
| 7. Dublin.—Dundrum               |    | 141  | 21                                | 162                   | 2.1      |  | 1.9               | 4 *             |   | .3                         | 114             |                                     | 1.3                     | - '6  | .7   |   | -6               | + .3                                   | 4     | 6    |                |          | { M.<br>F.   |      |              | 1                          |        |        |        |      |
|                                  |    |      |                                   |                       |          |  |                   |                 |   |                            |                 |                                     |                         |   |      |   | 1                | ,                                      |       |      |                | +        | r M.         |      | 315          | 21                         | -3     | 1.0    | .7     | _    |
|                                  |    |      |                                   |                       |          |  |                   |                 |   |                            |                 |                                     |                         |   |      |   |                  | Averag                                 | e for | 6 As | ylum           | s =      |              |      |              |                            |        |        | .2     | '2   |
|                                  | -  |      |                                   |                       |          | 9115   |                   |                 |   |                            |                 |                                     |                         |   |      |   |                  |  |       |      |                |          |              |      |              | -                          | -4     | 3'9    | .9     | '2   |
|                                  |    |      |                                   | No P.M                | I. recor | ded.   |                   |                 |   | † P.                       | M.'s for        | 1888-0                              | only                    |   |      |   |                  | PM's                                   |       | 0    |                |          |              | -    | -            |                            |        |        |        | -    |

‡ P.M.'s for 1899 only.

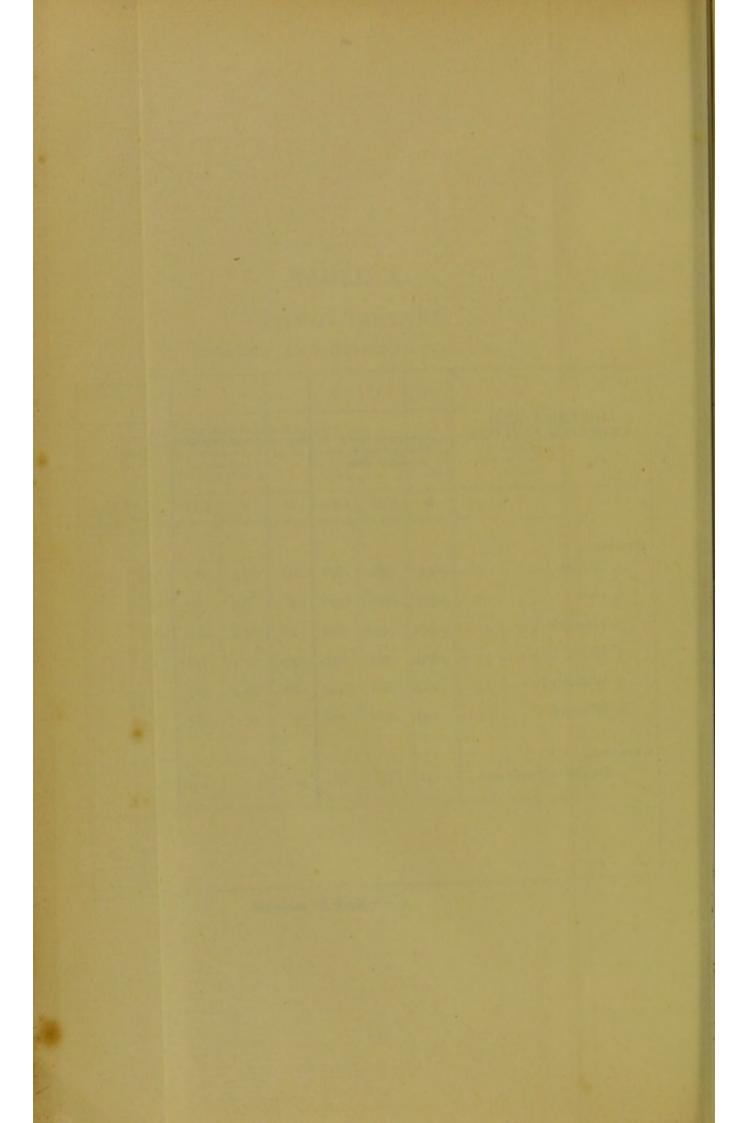


TABLE A.

A SUMMARY OF TABLE A (COLUMNS I TO 6).

|  | s u             |        | 1                               |        |                 | 2  |                      |                          | 3   |                           |                 | 4   |                       | 4.1  |                 | 5  |                  | 5A  |                       | 6                               |          |
|--|-----------------|--------|---------------------------------|--------|-----------------|--|----------------------|--------------------------|---|---------------------------|-----------------|---|-----------------------|--|-----------------|--|------------------|---|-----------------------|---------------------------------|----------|
| ASYLUMS.   | mber of Asylumi | Resid  | erage N<br>dent dur<br>g years. |        | Average<br>of D | per cen<br>No. R<br>EATHS fi<br>L CAUSES<br>years. | esident<br>rom<br>s. | Average<br>of E<br>Activ | Per cer<br>No. R<br>DEATHS V<br>VE TUBE<br>5 years. | Resident<br>with<br>RCLE. | Average<br>of I | o per cer<br>e No. R<br>DEATHS f<br>LL CAUSE<br>1899. | tesident<br>rom<br>s. | Com-<br>parison<br>of 1899<br>withAv.<br>of 5 yrs. | Average<br>of I | o per ce<br>e No. F<br>DRATHS VE TUBE<br>1899. | Resident<br>with | Com-<br>parison<br>of 1899<br>with Av.<br>of 5 yrs. | Reside                | rage Ler<br>ence of (<br>Column | Cases in |
|  |                 | M.     | F.                              | Total. | M.              | F.   | Total.               | M.                       | F.  | Total.                    | М.              | F.  | Total.                |  | М.              | F.   | Total.           |   | М.                    | F.                              | Total.   |
| ND AND WALES. County Asylums Borough and City, etc., Asylums | 49<br>10        |        |                                 | 50,200 |                 | 8·3<br>7·8   | 9.3                  | 2'4<br>1'9               | 2°1<br>1°4  | 2.3                       | 11.8            | 8·4<br>8·6  | 9'9                   | 0.0  | 2·6<br>2·4      | 2'1  | 2.3              | + 0,1   | yr, mo.<br>5 8<br>3 9 | yr. mo<br>6 2<br>4 10           |          |
| Total—County, Borough, and City Asylums                      | 59              | 24,227 | 30,176                          | 54,403 | 11.8            | 8.3  | 9.9                  | 2'4                      | 2'0   | 2.5                       | 11.0            | 8.4   | 10.0                  | + 0.1  | 2.6             | 2'0  | 2.3              | +0.1  | 5 6                   | 6 1                             | 5 9      |
| Hospitals, etc   | . 7             | 3,116  | 2,621                           | 5,737  | 6.3             | 6.0  | 6.1                  | 1.8                      | 1.2   | 1.7                       | 6.6             | 7.2   | 6.8                   | + 0.4  | 2'0             | 1.8  | 1.0              | + 0.5   | 10 1                  | 9 1                             | 9 8      |
| Total-England and Wales                                      | . 66            | 27,343 | 32,797                          | бо,140 | 11.5            | 8.1  | 9.2                  | 2.3                      | 2.0   | 2.1                       | 11'4            | 8.3   | 9.7                   | + 0.3  | 2.2             | 2'0  | 2.5              | + 0.1   | 5 11                  | 6 3                             | 6 1      |
| AND.<br>Royal and District Asylums                           | . 10            | 2,198  | 2,286                           | 4,484  | 9'4             | 7.8  | 8.6                  | 1.8                      | 1.2   | 1.6                       | 10.8            | 8.8   | 9.8                   | + 1.3  | 2'2             | 1'4  | 1.8              | + 0'2   | 5 8                   | 3 3                             | 4 9      |
| ND. District and Criminal Asylums .                          | 7               | 2,545  | 2,048                           | 4,593  | 6.8             | 6.6  | 6.6                  | r-6                      | 2.4   | 2'0                       | 7.7             | 8:4   | 8.0                   | + 1'4  | 2'3             | 3.1  | 2'7              | +0.4  | 5 2                   | 3 8                             | 4 4      |
| Totals   | 83              | 32,086 | 37,13                           | 69,217 | 10.7            | 8.0  | 9.4                  | 2'2                      | 2.0   | 2.1                       | 11.0            | 8.2   | 9.6                   | + 0'2  | 2.2             | 2'0  | 2.3              | + 0.1   | 5 10                  | 5 11                            | 5 10     |

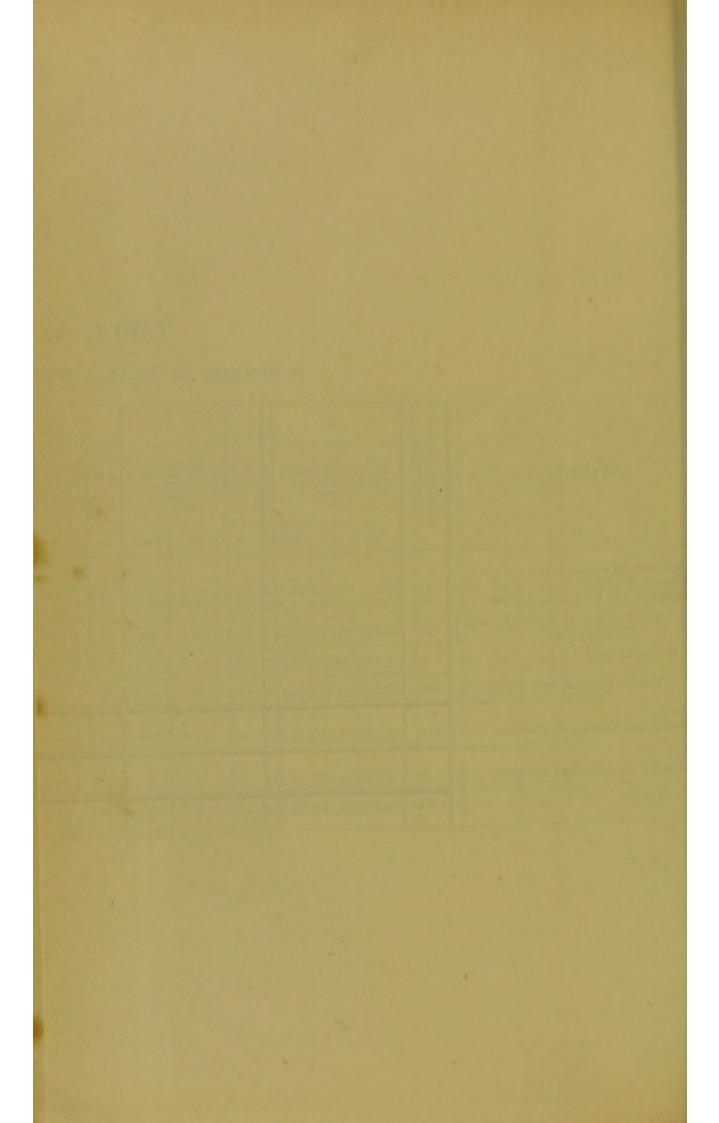
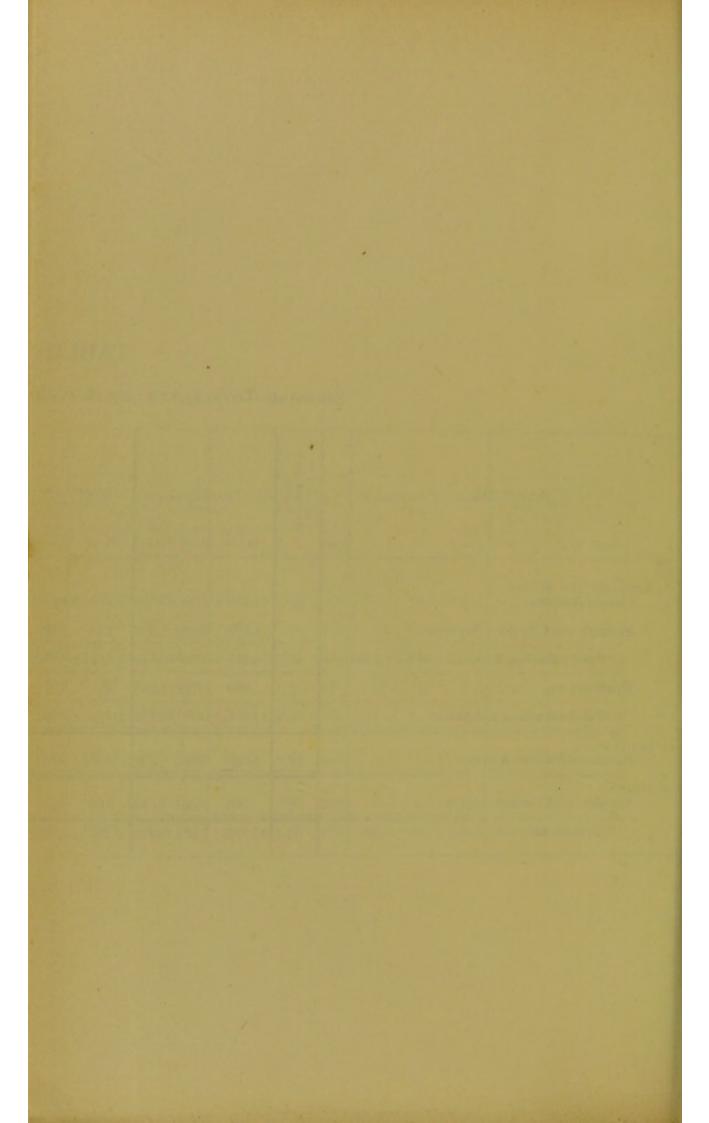


TABLE  $\mathbf{A_2}$ . Showing Totals, etc., from which Table  $\mathbf{A_1}$  is calculated.

|   | of<br>lealt                        |        | 2                    |        |       | 3                        |        |        | 16                |          |       | 4             |        |        | 5                 |          |        | 6                             |        |
|---|------------------------------------|--------|----------------------|--------|-------|--------------------------|--------|--------|-------------------|----------|-------|---------------|--------|--------|-------------------|----------|--------|-------------------------------|--------|
| ASYLUMS.                                    | Number of<br>Asylums deal<br>with. |        | tal Deat<br>5 years. |        |       | DEATHS CUBERCLE 5 years. |        | Averag | e No. Re<br>1899. | esident. |       | DEATHS. 1899. |        | DEATHS | s from T<br>1899. | UBERCLE. | den    | lengths<br>ce of Cas<br>mn 5. |        |
|   |                                    | M.     | F.                   | Total. | M.    | F.                       | Total. | M.     | F.                | Total.   | M.    | F.            | Total. | M.     | F.                | Total.   | M.     | F.                            | Total. |
| I. ENGLAND AND WALES. County Asylums        | 49                                 | 13,220 | 11,637               | 24,857 | 2,700 | 2,929                    | 5,629  | 23,176 | 30,460            | 53,636   | 2,735 | 2,595         | 5,330  | 607    | 635               | 1,242    | 3410'3 | 3892'0                        | 7302'3 |
| Borough and City, etc., Asylums             | 10                                 | 1,106  | 856                  | 1,962  | 193   | 157                      | 350    | 2,129  | 2,316             | 4,445    | 285   | 190           | 475    | 52     | 32                | 84       | 195'5  | 150.1                         | 345.6  |
| Total-County, Borough, and City Asylums     | 59                                 | 14,326 | 12,493               | 26,819 | 2,893 | 3,086                    | 5,979  | 25,305 | 32,776            | 58,081   | 3,020 | 2,785         | 5,805  | 659    | 667               | 1,326    | 3605.8 | 4042'1                        | 7647'9 |
| Hospitals, etc                              | 7                                  | 960    | 788                  | 1,748  | 282   | 203                      | 485    | 3,079  | 2,491             | 5,570    | 202   | 179           | 381    | 62     | 44                | 106      | 624'0  | 411.2                         | 1035.7 |
| Total-England and Wales                     | 66                                 | 15,286 | 13,281               | 28,567 | 3,175 | 3,289                    | 6,464  | 28,384 | 35,267            | 63,651   | 3,222 | 2,964         | 6,186  | 721    | 711               | 1,432    | 4229'8 | 4453'8                        | 8683.4 |
| II. SCOTLAND. Royal and District Asylums    | 10                                 | 1,038  |                      |        | 100   | 165                      |        |        | 2,580             |          |       | 226           |        | 55     | 36                | 91       | 311'4  | 118.5                         | 429.6  |
| III. IRELAND. District and Criminal Asylums | 7                                  | 863    | 755                  | 1,618  | 190   | 274                      | 464    | 2,683  | 2,228             | 4,911    | 206   | 186           | 392    | 61     | 70                | 131      | 317.0  | 257.0                         | 574.0  |
| Grand total                                 | . 83                               | 17,187 | 14,928               | 32,115 | 3,568 | 3,728                    | 7,296  | 33,573 | 40,075            | 73,648   | 3,700 | 3,376         | 7,076  | 837    | 817               | 1,654    | 4858°o | 4829'0                        | 9687'0 |



#### TABLE B.

#### GROUP I.—ENGLAND AND WALES—COUNTY ASYLUMS.

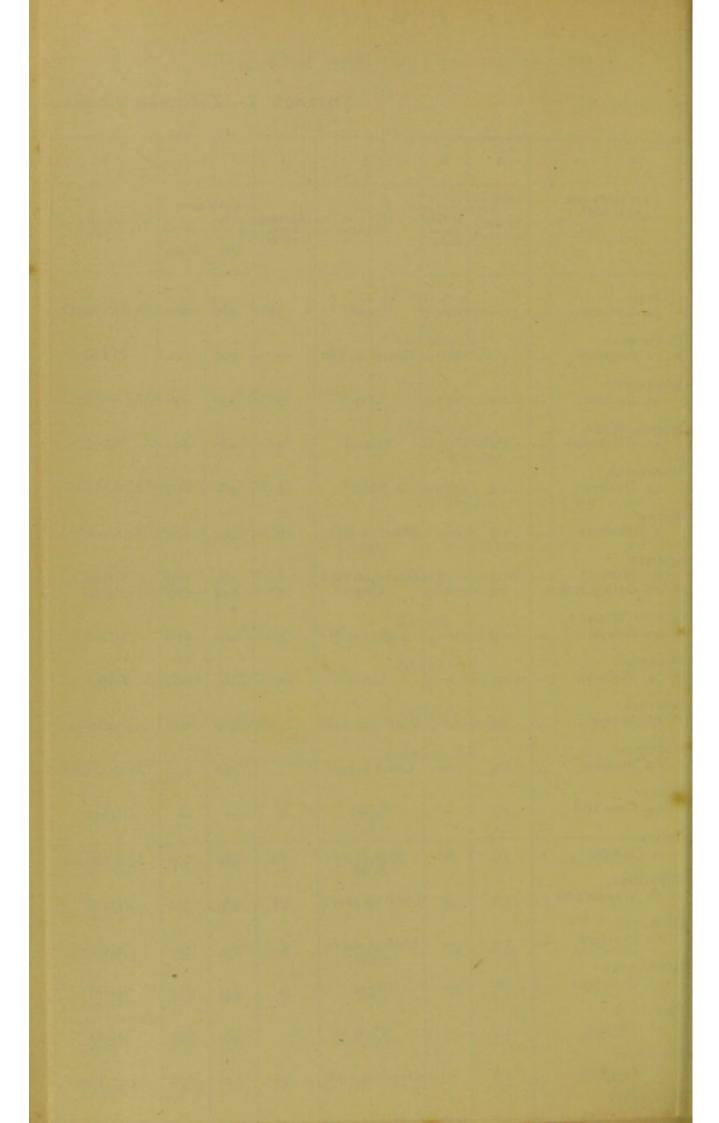
DIVISION 1.—Tubercular Death-rate = '3 to 2'0.

Division II.—Tubercular Death-rate = 2.1 to 5.9.

|   | 1                   | 2                       | 3                      | 4                            |            | 5          | 6                        | 7            | 8                        | 9                          | 10                  |  | 1                      | 2                       | 3                            | 4                            |       | 5          | 6                        | 7                  | 8                        | 9                         | 10       |
|---|---------------------|-------------------------|------------------------|------------------------------|------------|------------|--------------------------|--------------|--------------------------|----------------------------|---------------------|--|------------------------|-------------------------|------------------------------|------------------------------|-------|------------|--------------------------|--------------------|--------------------------|---------------------------|----------|
| TWENTY-SIX<br>ASYLUMS.                        | Tubercle death-rate | Height<br>above<br>O.D. | Sell.                  | Average<br>hours<br>outside. | -          | space.     | Character of population, | Ventilation, | Heating.                 | How floors are<br>cleaned. | Milk<br>sterifised. | TWENTY-THREE<br>ASYLUMS.                   | Tubercle<br>death rate | Height<br>above<br>O.D. | Set.                         | Average<br>hours<br>outside. |       | Night.     | Character of population. | Ventilation.       | Heating.                 | How foces<br>are cleaned, |          |
| Oxford.<br>32. Littlemore                     | r                   | -                       | Sand                   | 51                           | 480        | 600        | Agricultural             | Artificial   | Artificial               | Both                       | Yes                 | SALOP, ETC.<br>33. Shrewsbury              | 2'1                    | _                       | Clay                         | 9                            | 420   | 66o        | Urban                    | Artificial         | Artificial               | Polished                  | No       |
| GLANORGAN.<br>11. Angelton                    | r                   | 100                     | Gravel on grit         | -                            | 492        | 612        | Mixed                    | Natural      | Both                     | -                          | Yes                 | WORCESTER.<br>44. Powick                   | 21                     | _                       | Heavy clay                   | 4                            | 480   | 600        | Mixed                    | Natural            | Artificial               | Both                      | No       |
| SOMERSET.*<br>35. Cotford                     | 1'2                 | 135                     | Clay                   | 3                            | 530        | 750        | Agricultural             | Artificial   | Both                     | Polished                   | No                  | Kent.<br>17. Chartham                      | 21                     | 250                     | Chalk                        | 4                            | 475   | 600        | Agricultural             | Natural            | Open fires               | Polished                  | No       |
| Sussex, West.<br>40. Chichester<br>Wiltshike. | 1'2                 | 95                      | Gravel                 | 4                            | 480        | 800        | Mixed                    | Artificial   | Artificial               | Polished                   | -                   | YORKSHIRE,<br>46. Wakefield<br>47. Wadsley | 2'3                    | =                       | Clay<br>Clay                 | 8 5                          | 660   | 900        | Urban                    | Natural            | Open fires               | Both                      | No       |
| 43. Devizes                                   | 1.5                 | 385                     | Sand                   | 5                            | 480        | 660        | Agricultural             | Artificial   | Open fires               | Polished                   | -                   | CORNWALL. 6. Bodmin                        | 23                     | 600                     |                              | 7                            | 600   | -          | Urban<br>Agricultural    | Natural<br>Natural | Artificial               | _                         | No       |
| 3. Aylesbury                                  | 1.5                 | -                       | Loam on lime-<br>stone | 8                            | 304        | 470        | Agricultural             | -            | Artificial               | Scrubbed                   | No                  | GLANORGAN.<br>12. Parc-Gwylt               | 24                     | 300                     | Wet clay                     | _                            | 450   | 564        | Agricultural             | Natural            | Open fires               | -                         | -        |
| 27. Hanwell<br>25. Colney Hatch               | 1'3                 | 76                      | Gravel on sand<br>Clay | 6 4                          | 480<br>744 | 604<br>683 | Urban<br>Urban           | Both<br>Both | Both<br>Artificial       | Both<br>Polished           | No<br>Yes           | CUNSERLAND, ETC.<br>7. Carlisle            | 2'4                    | _                       | Porous                       | 6)                           | 430   | -          | Mixed                    | Natural            | Artificial<br>Open fires | Polished                  | No No    |
| ISLE OF WIGHT.\$ 42. Newport                  | 1'4                 | -                       | Light sandy            | 5                            | 480        | 600        | Mixed                    | Artificial   | Both                     | Polished                   | No                  | SURREY.<br>39. Brookwood                   | 2'5                    | _                       | Clay                         | 9                            | 236   | 500        | Mixed                    | Natural            | Open fires               | Scrubbed                  | No No    |
| SOMERSET.<br>34. Wells                        | 1'4                 | -                       | Loam                   | -                            | 480        | 600        | Mixed                    | Artificial   | Artificial               | Polished                   | No                  | Norrs.<br>31. Nottingham                   | 2'5                    | _                       | Sandstone                    | 4                            | _     | 630        | Mixed                    | Natural            | Artificial               | Scrubbed                  | No       |
| Nonrolk.<br>29. Tharpe                        | 1'5                 | -                       | Chalk and sand         | 11                           | 480        | 600        | Agricultural             | Natural      | Open                     | Polished                   | -                   | LONDON.<br>26. Claybury                    | 26                     | 250                     | Clay                         | 64                           | _     | _          | Urban                    | Natural            | Open fires               | Polished                  | Yes      |
| YORKSHIRE,<br>49. Beverley                    | 1'5                 | -                       | Chalk subsoil          | 7                            | 550        | 650        | Agricultural             | -            | Both                     | Polished                   | No                  | YORKSHIRE.<br>45. Clifton                  | 216                    | _                       | Clay                         | 8                            | 450   | 600        | Mixed                    | Natural            | Both                     | Polished                  | No       |
| SURREY.<br>24. Cane Hill .<br>CAMES.          | 1'5                 | -                       | Chalk                  | 6                            | -          | -          | Urban                    | Natural      | Open fires               | Both                       | No                  | LANCASHIRE.<br>20. Whittingham             | 26                     | 250                     | Clay                         | 9                            | 480   | 600        | Urban                    | Artificial         | Artificial               | Polished                  | Yes      |
| 4. Fulbourne ,                                | 15                  | 80                      | Subsoil on<br>chalk    | 81                           | 480        | 600        | Agricultural             | Natural      | Both                     | Both                       |                     | Suffolk,<br>38. Woodbridge                 | 27                     | 100                     | Sand on gravel               | 51                           | 450   | 620        | Agricultural             | Natural            | Open fires               | Polished                  | No       |
| 28. Wandsworth . Heregono.                    | 1'5                 | 40                      | Loam on grave          | 71                           | 480        | 600        | Mixed                    | Natural      | Artificial               | Polished                   | -                   | CHESTER. 5. Upton                          | 3"                     | 67                      | Red sandstone                | -                            | 480   | 600        | Mixed                    | Natural            | Artificial               | Polished                  | -        |
| IS. Hereford .                                | 1'5                 | -                       | Marl on sand-<br>stone | 6                            | -          | -          | Mixed                    | 1-           | Artificial               | Both                       | Yes                 | Densy.<br>9. Derby                         | 3'2                    | 300                     | Chy                          | 5                            | 480   | 600        | Mixed                    | Natural            | Artificial               | Polished                  | Yes      |
| 13. Gloucester . Yorkshire,                   | 1-6                 | -                       | Gravel                 | 9                            | 434        | 682        | Mixed                    | Natural      | Open fires               | Scrubbed                   | No                  | DENRIGH.<br>8. Denbigh                     | 3'3                    | 310                     | Gravel on clay               | 9                            | 510   | 570        | Mixed                    | Natural            | Open fires               | Scrubbed                  | No       |
| 48. Menston<br>BERKSHIRE.                     | 17                  | -                       | Clay                   | -                            | 460        | 570        | Mixed                    | Both         | Artificial               | Polished                   | Yes                 | LEICESTER.<br>21. Leicester                | 3'3                    | -                       | Clay                         | 4                            | 600   | 600        | Agricultural             | Natural            | Open fires               | Scrubbed                  | -        |
| HAMPSHIEL,<br>14. Fareham                     | 1.8                 | -                       | Gravel on mari         |                              | 540        | боо        | Agricultural             | Natural      | Artificial               | Polished                   | Yes                 | KENT.<br>16. Barming Heath                 | 3.6                    | 220                     | Kent ragitone                | 6                            | 196   | 593        | Mixed                    | -                  | Artificial               | Polished                  | Yes      |
| LANCASHIRE.<br>18. Lancaster                  | 18                  | 130                     | Gravel on chall        |                              | -          | -          | Agricultural             | Natural      | Open fires               | Both                       | No                  | NORTHUMBERLAND.<br>30. Morpeth             | 4.8                    | -                       | Clay                         | -                            | -     | -          | Mixed                    | Artificial         | Both                     | Polished                  | -        |
| LONDON.<br>23. Banstead                       | 1.8                 |                         | Subsoil on gri         | it 4)                        | 450        | 600        | Mixed                    | -            | -                        | Polished                   | Yes                 | 19 Rainhill                                | 5                      | 250                     | Clay on marl                 | 4 (                          | ioo 7 | 760        | Urban                    | Both               | Both                     | Polished                  | No       |
| WARRICK.<br>41. Hatton                        | 19                  | 310                     | Clay                   | 3                            |            |            | Urban                    | Artificial   | Artificial               | Polished                   | No                  | 36. Burntwood<br>37. Stafford              | 5°2<br>5°9             |                         | Mixed marl<br>ravel and sand |                              |       | 550<br>545 | Urban<br>Urban           | Natural<br>Natural |                          | Polished 2<br>Polished 2  | No<br>No |
| Devon.<br>10. Exminster                       | 2"                  | 250                     | Sand                   | 9                            | 480        |            | Agricultural             | Artificial   | Artificial<br>Artificial | Polished<br>Polished       | No.                 |  |                        |                         |                              |                              |       |            |                          |                    |                          |                           |          |
| BEDS, HERTS, ETC.<br>1. Arlesey               | 2                   | 200                     | _                      | 7                            | 480        | 600        | Agricultural             | -            | Open fires               | Both                       | No -                |  |                        |                         |                              |                              |       |            |                          |                    |                          |                           | 1        |
| Lincoln.<br>22. Bracebeidge                   | 2                   | -                       | Limestone              | 6                            | 545        |            | Mixed                    | Artificial   | Artificial               | Polished                   | No                  |  |                        |                         |                              |                              |       |            |                          |                    |                          |                           |          |
|   |                     |                         |                        |                              |            |            |                          |              | 9 N 1                    |                            | 3000                |  |                        |                         | -                            |                              |       |            |                          |                    |                          |                           |          |

<sup>\*</sup> New Asylum. 3 years.

<sup>† 4</sup> years. New Asylum.



#### TABLE B.

GROUP I.—ENGLAND AND WALES—COUNTY ASYLUMS.

DIVISION 1.—Tubercular Death-rate = '3 to 2'0.

DIVISION II.—Tubercular Death-rate = 2.1 to 5.9.

|   |       | 1                 | 2                       | 3                      | 4                            | 3             |        | 6                        | 7            | 8                  | 9                       | 10                  |  | 1                     | 2   | 3                             | 4                            |            | 5          | 6                        | 7                  | 8                        | 9                          | 10                 |
|---|-------|-------------------|-------------------------|------------------------|------------------------------|---------------|--------|--------------------------|--------------|--------------------|-------------------------|---------------------|--|-----------------------|-----|-------------------------------|------------------------------|------------|------------|--------------------------|--------------------|--------------------------|----------------------------|--------------------|
| TWENTY-SIX<br>ASYLUMS.                    | Todes | bercle<br>th-rate | Reight<br>above<br>O.D. | Seil.                  | Average<br>hours<br>outside. | Cubic<br>Day. | space. | Character of population. | Ventilation, | Heating.           | How floors are cleaned. | Milk<br>sterilised. | TWENTY-THREE ASYLUMS.                      | Tubercle<br>death rat |     | Sel.                          | Average<br>hours<br>outside. |            | space.     | Character of population. | Ventilation,       | Heating.                 | How floors<br>are cleaned. | Milk<br>sterilised |
| xFORD.<br>32. Littlemore .                |       | 1"                | _                       | Sand                   | 51                           | 480           | 600    | Agricultural             | Artificial   | Artificial         | Both                    | Yes                 | SALOP, STC.<br>33. Shrewsbury              | 21                    | -   | Clay                          | 9                            | 420        | 660        | Urban                    | Artificial         | Artificial               | Polished                   | No                 |
| LAMORGAN.                                 |       | r                 | 100                     | Gravel on grit         | -                            | 492           | 612    | Mixed                    | Natural      | Both               | -                       | Yes                 | WORCESTER.<br>44. Powick                   | 2'1                   | -   | Heavy clay                    | 4                            | 480        | 600        | Mixed                    | Natural            | Artificial               | Both                       | No                 |
| OMERSET.*<br>35. Cotford .                |       | 1'2               | 135                     | Clay                   | 3                            | 530           | 750    | Agricultural             | Artificial   | Both               | Polished                | No                  | KENT.<br>17. Chartham                      | 2'1                   | 250 | Chalk                         | 4                            | 475        | 600        | Agricultural             | Natural            | Open fires               | Polished                   | No                 |
| ussex, West.<br>40. Chichester .          | -11   | 1'2               | 95                      | Gravel                 | 4                            | 480           | 800    | Mixed                    | Artificial   | Artificial         | Polished                | -                   | YORKSHIRE.<br>46. Wakefield<br>47. Wadsley | 23                    | =   | Clay                          | 8 5                          | 660<br>600 | 900<br>800 | Urban<br>Urban           | Natural<br>Natural | Open fires<br>Artificial | Both                       | No<br>No           |
| VILTSHIRE.<br>43. Devizes                 |       | 1'2               | 385                     | Sand                   | 5                            | 480           | 660    | Agricultural             | Artificial   | Open fires         | Polished                | -                   | CORNWALL. 6. Bodmin                        | 23                    | 600 |                               | 7                            | -          | -          | Agricultural             | Natural            | Open fires               | _                          | _                  |
| 3. Aylesbury                              |       | 1.5               | -                       | Loam on lime-<br>stone | 8                            | 304           | 470    | Agricultural             | -            | Artificial         | Scrubbed                | No                  | GLANORGAN,<br>12. Parc-Gwylt               | 2.4                   | 300 | Wet clay                      | -                            | 450        | 564        | Agricultural             | Natural            | Artificial               | -                          | -                  |
| ondon.<br>27. Hanwell<br>25. Colney Hatch |       | 1'3<br>1'4        | <del>26</del>           | Gravel on sand<br>Clay | 6 4                          | 480<br>744    |        | Urban<br>Urban           | Both<br>Both | Both<br>Artificial | Both<br>Polished        | No<br>Yes           | CUMBERLAND, ETC.<br>7. Carlisle            | 2'4                   | -   | Porous                        | 6)                           | _          | -          | Mixed                    | Natural            | Open fires               | Polished                   | No                 |
| SLE OF WIGHT.†<br>42. Newport             |       | 1'4               | -                       | Light sandy            | 5                            | 480           | 600    | Mixed                    | Artificial   | Both               | Polished                | No                  | Surrey.<br>39. Brookwood .                 | 2'5                   | -   | Clay                          | 9                            | 236        | 500        | Mixed                    | Natural            | Open fires               | Scrubbed                   | No                 |
| SOMERSET.<br>34. Wells                    | ***   | 174               | -                       | Loam                   | -                            | 490           | 600    | Mixed                    | Artificial   | Artificial         | Polished                | No                  | Norrs.<br>31. Nottingham .                 | 25                    | -   | Sandstone                     | 4                            | _          | 630        | Mixed                    | Natural            | Artificial               | Scrubbed                   | No                 |
| Nonrolk.<br>29. Thorpe                    |       | 1.2               | -                       | Chalk and san          | d 11                         | 480           | 600    | Agricultural             | Natural      | Open               | Polished                | -                   | London.<br>26. Claybury .                  | 26                    | 250 | Clay                          | 61                           | -          | -          | Urban                    | Natural            | Open fires               | Polished                   | Yes                |
| YORKSHIRE.<br>49. Beverley                |       | 1'5               | -                       | Chalk subsoil          | 7                            | 550           | 650    | Agricultural             | -            | Both               | Polished                | No                  | YORKSHIRE.<br>45. Clifton                  | 26                    | -   | Clay                          | 8                            | 450        | 600        | Mixed                    | Natural            | Both                     | Polished                   | No                 |
| Surrey.<br>24. Cane Hill                  |       | 1.2               | -                       | Chalk                  | 6                            | -             | -      | Urban                    | Natural      | Open fires         | Both                    | No                  | LANCASHIRE.<br>20. Whittingham .           | 26                    | 250 | Clay                          | 9                            | 480        | 600        | Urban                    | Artificial         | Artificial               | Polished                   | Yes                |
| CAMBS.<br>4. Fulbourne                    |       | 1.5               | 80                      | Subsoil on<br>chalk    | 81                           | 480           | 600    | Agricultural             | Natural      | Both               | Both                    | -                   | Suppole.  j8. Woodbridge .                 | 27                    | 100 | Sand on gravel                | 51                           | 450        | 620        | Agricultural             | Natural            | Open fires               | Polished                   | No                 |
| Mindlesex.<br>28. Wandsworth              |       | 1.2               | 40                      | Loam on grav           | el 7½                        | 480           | 600    | Mixed                    | Natural      | Artificial         | Polished                | -                   | CHESTER. 5. Upton                          | 3                     | 67  | Red sandstone                 | -                            | 480        | 600        | Mixed                    | Natural            | Artificial               | Polished                   | -                  |
| HEREFORD.<br>15. Hereford                 |       | 1.2               | -                       | Marl on sand           | - 6                          | -             | -      | Mixed                    | -            | Artificial         | Both                    | Yes                 | DERBY.<br>9. Derby                         | 3'2                   | 300 | Clay                          | 5                            | 48o        | 600        | Mixed                    | Natural            | Artificial               | Polished                   | Yes                |
| GLOUCESTER.<br>13. Gloucester             |       | 1.6               | -                       | Gravel                 | 9                            | 434           | 682    | Mixed                    | Natural      | Open fires         | Scrubbed                | No                  | DENBIGH.<br>8. Denbigh .                   | 3'3                   | 310 | Gravel on clay                | . 9                          | 510        | 570        | Mixed                    | Natural            | Open fires               | Scrubbed                   | No                 |
| Yorkshire.<br>48. Menston                 |       | 17                | -                       | Clay                   | -                            | 46            | 570    | Mixed                    | Both         | Artificial         | Polished                | Yes                 | LEICESTER.<br>21. Leicester .              | 33                    | -   | Chy                           | 4                            | 600        | 600        | Agricultural             | Natural            | Open fires               | Scrubbed                   | -                  |
| BERKSHIRE.<br>2. Mouisford                |       | 1.8               | -                       | Gravel on ma           | erl 4%                       | 54            | 600    | Agricultural             | Natural      | Artificial         | Polished                | Yes                 | KENT.<br>16. Barming Heatl                 | g 6                   | 220 | Kent ragstone                 | 6                            | 496        | 593        | Mixed                    | -                  | Artificial               | Polished                   | Yes                |
| HAMPSHIRE,<br>14. Furcham                 |       | 1/8               | 130                     | Gravel on cha          | ilk 4h                       | -             | -      | Agricultural             | Natural      | Open fires         | Both                    | No                  | NORTHUMBERLAND.<br>30. Morpeth .           | 48                    | -   | Clay                          | -                            | -          | -          | Mixed                    | Artificial         | Both                     | Polished                   | -                  |
| LANCASHIRE.<br>18. Lancaster              |       | 1.8               | -                       | Subsoil on g           | rit 45                       | -             | -      | Mixed                    | -            | -                  | Polished                | Yes                 | Lancashire.                                | 5'                    | 250 | Clay on marl                  | 4                            | 600        | 760        | Urban                    | Both               | Both                     | Polished                   | No                 |
| LONDON.<br>23. Banstead                   |       | 1'8               | -                       | Chalk                  | -                            | 48            | 0 600  | 0 Urban                  | -            | Artificial         | Polished                | No                  | STAFFORD.<br>36. Berntwood<br>37. Stafford | 52                    | =   | Mixed marl<br>Gravel and sand |                              |            | 650<br>625 | Urban<br>Urban           | Natural<br>Natural | Both<br>Both             | Polished<br>Polished       | No<br>No           |
| WARWICK.<br>41. Hatton                    |       | 1.0               | 310                     | Clay                   | 3                            | 49            | 0 70   | 0 Urban                  | Artificial   | Artificial         | Polished                | No                  | 37. 51411013                               | 39                    |     |                               |                              |            |            |                          |                    |                          |                            |                    |
| DRVON.<br>10. Exminster                   |       | 2'                | 250                     | Sand                   | 9                            | 48            | 0 79   | 2 Agricultural           | Artificial   | Artificial         | Polished                | No                  |  |                       |     |                               |                              |            |            |                          |                    |                          |                            | 1                  |
| BEDS, HERTS, ETC.                         | c,    | 2'                | 200                     | -                      | 7                            | 48            | 60     | o Agricultural           | -            | Open fires         | Both                    | -                   |  |                       |     |                               |                              |            |            |                          |                    |                          |                            |                    |
| Lincoln.<br>22. Bracebridg                | ge    | 2                 | -                       | Limestone              | 6                            | 54            | 5 62   | 5 Mixed                  | Artificial   | Artificial         | Polished                | No                  |  |                       |     |                               |                              |            |            |                          |                    |                          |                            |                    |
| The second second                         |       |                   |                         |                        |                              |               |        |                          |              |                    |                         |                     | -  | 1000000               |     |                               |                              |            |            |                          |                    |                          |                            |                    |

\* New Asylum. 3 years.

† 4 years. New Asylum.

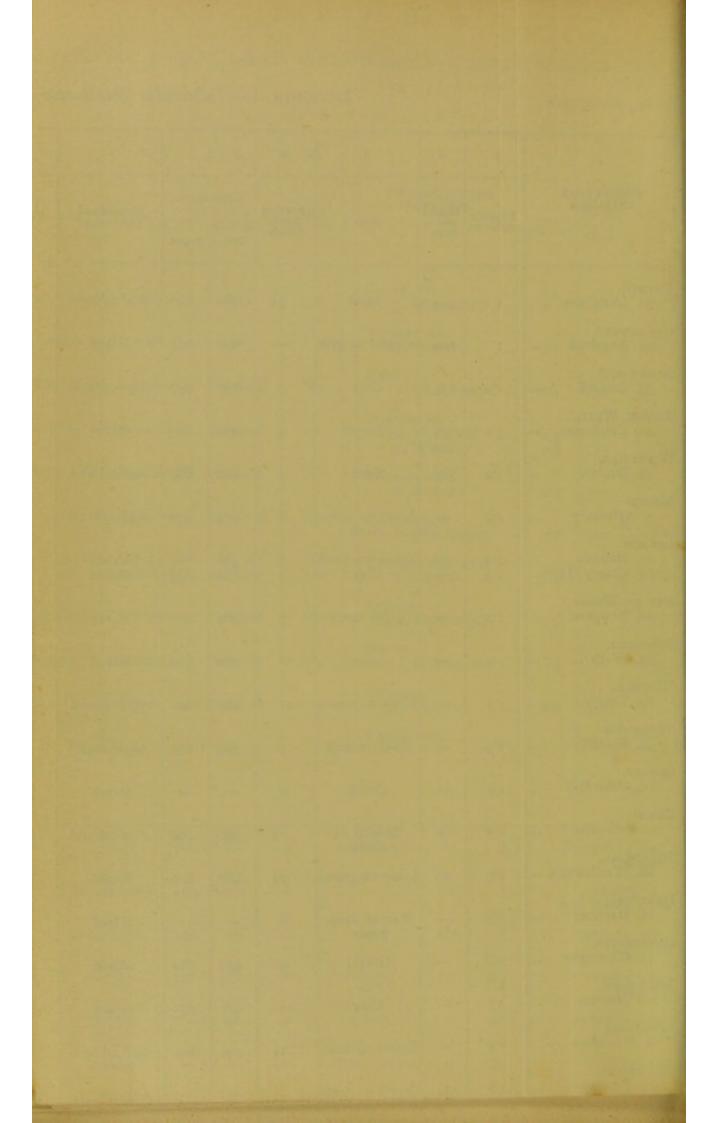


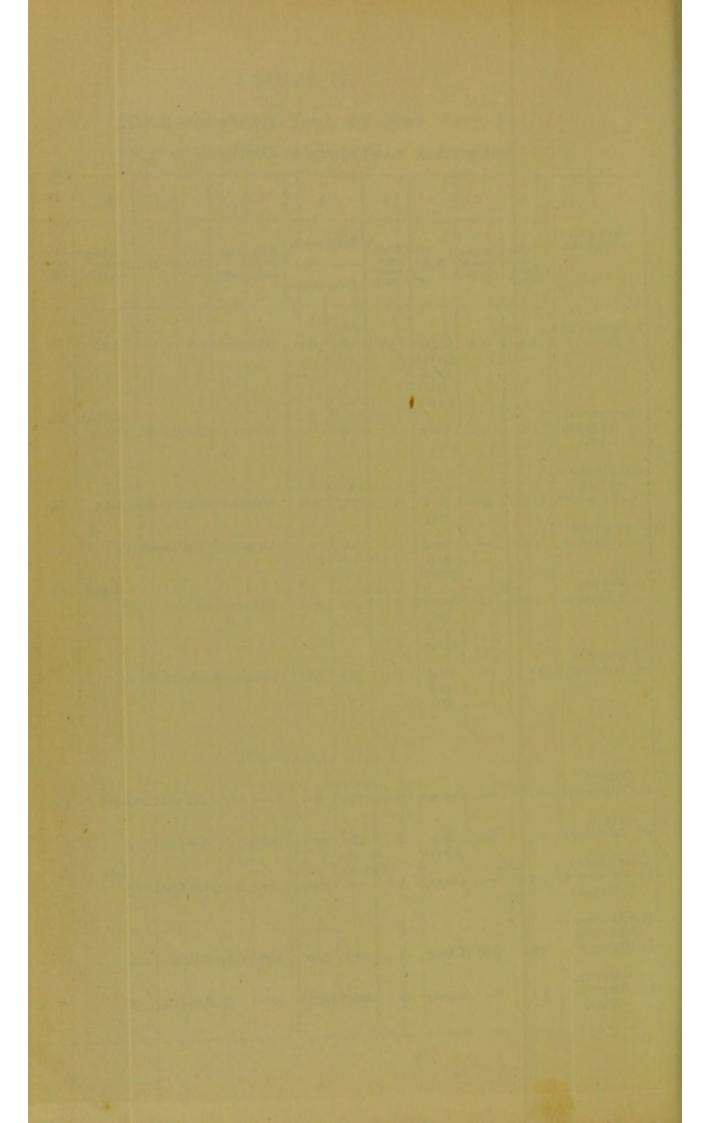
TABLE B.

GROUP 2.—ENGLAND AND WALES—a. Borough, City, etc., Asylums.

Division i.—Tubercular Death-rate = '5 to 2'0.

Division 2.—Tubercular Death-rate = 2.0 to 3.1.

|                                       | 1                      | 2             | 3                             | 4                        |       | 5      | 6                 | 7            | 8          | 9          | 10             |                                 | 1               | 2        | 3                      | 4                 |       | 5      | 6                          | 7            | 8          | 9          | 10  |
|---------------------------------------|------------------------|---------------|-------------------------------|--------------------------|-------|--------|-------------------|--------------|------------|------------|----------------|---------------------------------|-----------------|----------|------------------------|-------------------|-------|--------|----------------------------|--------------|------------|------------|-----|
| ELEVEN<br>ASYLUMS.                    | Tuber-                 | Height        |                               | Aver-                    | Cubic | space. | Character         | Ventileties  | Vietles    | How floors | Milk<br>steri- | ASYLUMS.                        |                 | Height   | Soil                   | Aver-             | Cubic | space. | Character of               | Ventilation. | Heating.   | How floors | Mil |
|                                       | cle<br>death-<br>rate. | above<br>O.D. | Soil.                         | age<br>hours<br>outside. | Day.  | Night. | of<br>population. | Ventilation. | Heating.   | cleaned.   | lised.         |                                 | death-<br>rate. | O.D.     |                        | hours<br>outside. | Day.  | Night. | population.                |              | Treating.  | cleaned.   |     |
| ondon(City).<br>4. Stone              |                        |               | Light<br>gravel,<br>sand,     | 9                        | 480   | 600    | Urban             | -            | -          | Polished   | Yes            | DERBY.<br>2. Rowditch .         | 2'4             | 280      | Clay                   | 4                 | 600   | 700    | Urban                      | -            | Both       | Both       | No  |
| Leicester.<br>3. Humber-<br>stone     | 1.0                    | 250           | and<br>chalk<br>Clay          | 6                        | -     | -      | Urban             | Artificial   | Artificial | Both       | No             | YORKS.<br>5. Middles-<br>brough | 2'4             | -        | Clay                   | 9                 | 492   | 800    | Urban                      | Artificial   | Open fires | Polished   | Ye: |
| Nottingham<br>(City).<br>7. Mapperley | 1.5                    | 400           | Red                           | 9                        | 500   | 600    | Urban             | Artificial   | Both       | Polished   | -              | SUNDERLAND.<br>10. Ryhope .     | 2'7             | -        | Clay                   | 5                 | 600   | 650    | Urban                      | Artificial   | Artificial | Both       | No  |
| Norwich.<br>9. Hillesdon              | 1'4                    | -             | Sand<br>and<br>gravel         |                          | -     | -      | Urban             | Natural      | Artificial | Polished   | -              | Newcastle<br>(City).            |                 |          |                        |                   |       |        |                            |              |            |            |     |
| BRISTOL.<br>1. Fishponds              | . 1'9                  | 150           | Grave<br>on<br>sand-<br>stone | 1 5                      | 480   | боо    | Urban             | -            | Artificial | Polished   | No             | 6. Gosforth .                   | 3.0             | -        | Heavy                  | 7                 | -     | -      | Urban                      | Natural      | Artificial | Polished   | No  |
| PLYMOUTH.<br>8. Ivybridge             | . 200                  | -             | Peat<br>and<br>grit           | 1 2                      | 550   | 600    | Urban             | Natural      | Both       | Polished   | No             |                                 |                 |          |                        |                   |       |        |                            |              |            |            |     |
|                                       |                        |               | ,                             |                          |       |        |                   |              |            | b. F       | Hospi          | TALS, ETC.                      |                 |          |                        |                   |       |        |                            |              |            |            |     |
| Oxford.<br>12. Warnefor               | d 0.1a                 | 1 -           | Porou                         | s 6                      | -     | -      | _                 | Natural      | Open fires | Polished   | No             | REDHILL.<br>17. Earlswood       | 2'4             | <u> </u> | Clay                   | _                 | _     | 500    | Mixed                      | Artificial   | Open fires | Both       | Yes |
| BERKS.<br>16. Broadmoo                | or o.3,                | 400           | Dry                           |                          | 484   | 900    | Mixed             | Artificial   | Artificial | Both       | No             | Watford.                        |                 |          |                        |                   |       |        |                            |              |            |            |     |
| GLOUCESTER<br>11. Barnwood<br>House   |                        | -             | Grave                         |                          | -     | 845    | -                 | Artificial   | Artificial | Polished   | No             | 14. Leavesden                   | 3.0             | -        | Grave<br>and<br>clayor |                   | -     | -      | Mixed,<br>imbecile,<br>and | Natural      | Both       | Both       | Yes |
| MET.DISTRIC<br>DARTFORD.              |                        | 200           | Chal                          | k 4                      | 550   | 550    | Urban             | Both         | Open fires | Both       | Yes            |                                 |                 |          | chalk                  |                   |       |        | infirm                     |              |            |            |     |
| YARMOUTH<br>15. Royal<br>Naval        | 111                    |               |                               | ly 9                     | 1000  | 9 1000 |                   | Artificial   | Artificial | Both       | No             |                                 |                 |          |                        |                   |       |        |                            |              |            |            |     |



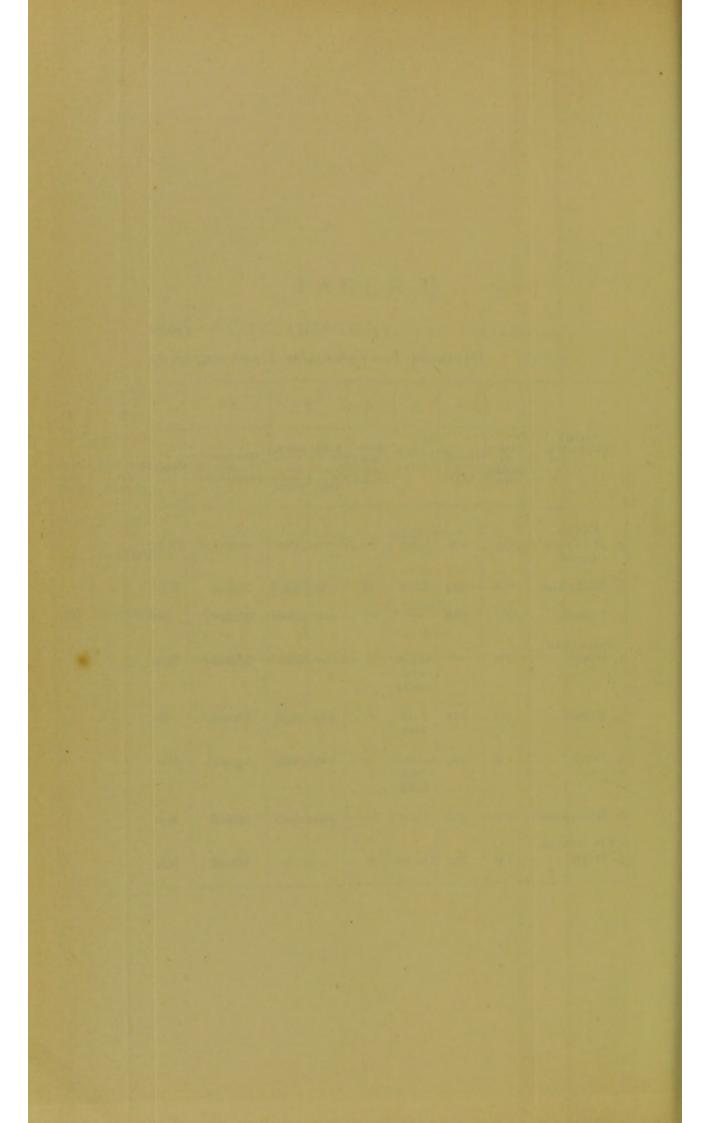
#### TABLE B.

GROUP 3.—SCOTLAND—ROYAL AND DISTRICT ASYLUMS.

Division I.—Tubercular Death-rate =  $\cdot 5$  to 1.9.

Division II.—Tubercular Death-rate = 20 to 27.

|                               | 1      | 2                       | 3                     | 4                     | 5    |        | 6           | 7            | 8          | 9                             | 10             |                         | 1                       | 2      | 3                     | 4                     |       | 5      | 6               | 7            | 8          | 9               | 10   |
|-------------------------------|--------|-------------------------|-----------------------|-----------------------|------|--------|-------------|--------------|------------|-------------------------------|----------------|-------------------------|-------------------------|--------|-----------------------|-----------------------|-------|--------|-----------------|--------------|------------|-----------------|------|
| EIGHT<br>ASYLUMS.             | death- | Height<br>above<br>O.D. | Soil.                 | Aver-<br>age<br>bours |      |        | Character   | Ventilation. | Heating.   | How floors<br>are<br>cleaned. | Milk<br>steri- | TWO<br>ASYLUMS.         | Tuber-<br>cle<br>death- | Height | Soil.                 | Aver-<br>age<br>hours | Cubic | space. | Character<br>of | Ventilation. | Hastina    | How floors      | Mi   |
|                               | rate.  | 0.15.                   |                       | outside.              | Day. | Night. | population. |              | -          | cleaned.                      | lised.         |                         | rate.                   | O.D.   |                       | outside.              | Day.  | Night. | population.     | - Continuous | rreating.  | are<br>cleaned. | lise |
| Perтн.<br>. Murray's<br>Royal | 0.2    | 120                     | Clay                  | 8                     | -    | 900    | -           | Natural      | Artificial | Polished                      | No             | Montrose.<br>3. Royal . | 2.0                     | 200    | Clay                  | 51                    | 600   | 720    | Mixed           | Artificial   | Both       | Polished        | -    |
| . Midlothian .                | 0.8    | 694                     | Clay                  | 51                    | 253  | 573    | Mixed       | Natural      | Both       | Polished                      | _              |                         |                         |        | rock                  |                       |       |        |                 |              |            |                 |      |
| . Lanark                      | 0.0    | 700                     | -                     | 61                    | 400  | 800    | Mixed       | Both         | Artificial | Polished                      | -              | 6. Inverness            | 2.7                     | 450    | Gravel<br>and<br>clay | 31                    | 360   | 800    | Agricul.        | Both         | Artificial | Polished        | No   |
| ABERDEEN.                     | 1'2    | -                       | Light<br>and<br>sandy |                       | 800  | 1000   | Mixed       | Natural      | Artificial | Polished                      | No             |                         |                         |        | Ciay                  |                       |       |        |                 |              |            |                 | -    |
| 5. Govan .                    | . 1'3  | 110                     | Stiff                 | 6                     | 430  | 850    | Urban       | Both         | Artificial | Polished                      | No             |                         |                         |        |                       |                       |       |        |                 |              |            |                 |      |
| 9. Perth                      | . 1'4  | 400                     | Grave<br>and<br>sand  |                       | 360  | 1000   | Agricul.    | Natural      | Both       | Both                          | -              |                         |                         |        |                       |                       |       |        |                 |              |            |                 |      |
| 6. Roxboroug                  | h 1.7  | 500                     | Clay                  | -                     | 360  | 720    | Mixed       | Natural      | Both       | Polished                      | _              |                         |                         |        |                       |                       |       |        |                 |              |            |                 |      |
| EDINBURGH.                    | . 1'9  |                         | Grave                 |                       |      |        | Mixed       | Natural      |            |                               |                |                         |                         |        |                       |                       |       |        |                 |              |            |                 |      |



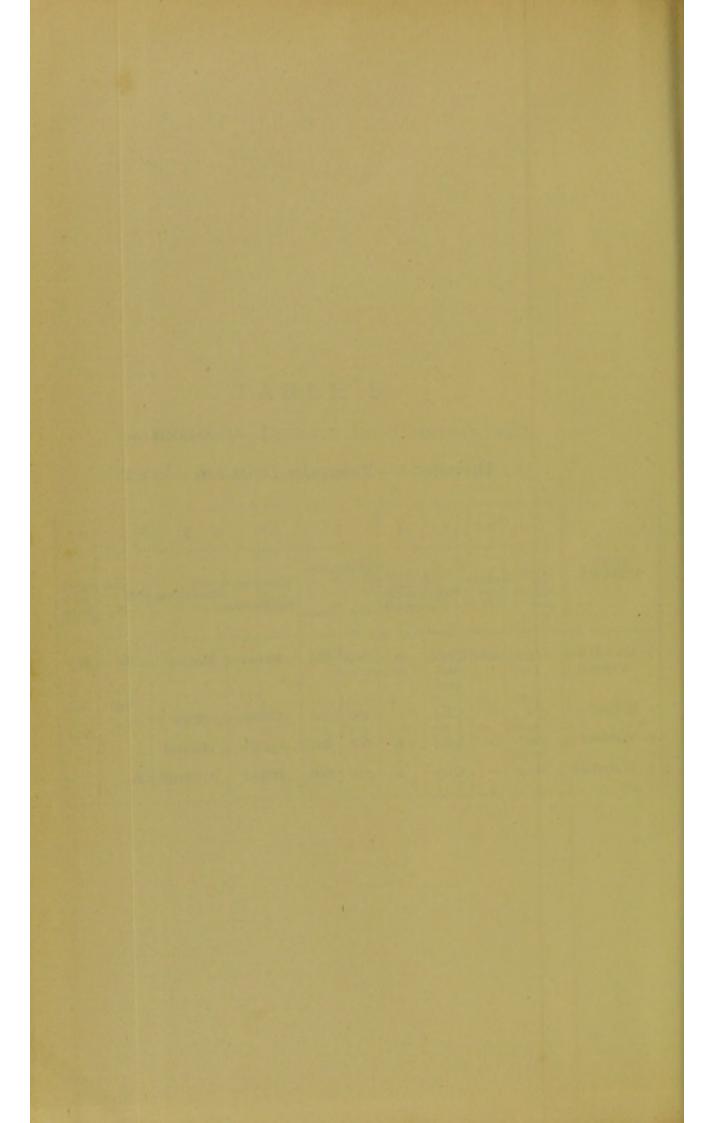
#### TABLE B.

GROUP 4.—IRELAND—DISTRICT AND CRIMINAL ASYLUMS.

DIVISION I — Tubercular Death-rate = 0.3 to 1.5.

DIVISION II.—Tubercular Death-rate = 2.2 to 3.0.

|                  | 1      | 2                       | 3                    | 4                 |              | 5      | 6         | 7            | 8          | 9               | 10               |                         | 1               | 2             | 3           | 4                 |              | 5      | 6               | 7            | 8          | 9          | 10               |
|------------------|--------|-------------------------|----------------------|-------------------|--------------|--------|-----------|--------------|------------|-----------------|------------------|-------------------------|-----------------|---------------|-------------|-------------------|--------------|--------|-----------------|--------------|------------|------------|------------------|
| FOUR<br>ASYLUMS. | Tuber- | . Malaki                |                      | Aver-             | Cubic space. |        | Character |              |            | How floors      | Milk             | THREE ASYLUMS.          |                 |               | Soil.       | Aver-             | Cubic space. |        | Character<br>of | Ventilation. | Heating.   | How floors |                  |
|                  | death- | Height<br>above<br>O.D. | Soil.                | hours<br>outside. | Day.         | Night. |           | Ventilation. | Heating.   | are<br>cleaned. | steri-<br>lised. |                         | death-<br>rate. | above<br>O.D. |             | hours<br>outside. | Da y         | Night. |                 | ventuation.  | ricating.  | cleaned.   | steri-<br>lised. |
| 7. Dundrum       | 0.3    | 300                     | Chalk<br>and<br>sand | 9                 | 609          | 864    | Mixed     | Natural      | Fires      | Both            | No               | 4. Meath—<br>West Meath | 2.2             | 320           | Sandy       | -                 | 280          | 525    | Agricul.        | Artificial   | Artificial | Both       | No               |
| ı. Belfast       | 0.0    | -                       | Clay                 | -                 | 400          | 600    | Urban     | Both         | Both       | Polished        | ,,               | 3. Limerick .           | 2.2             | _             | Damp        | 4                 | 400<br>360   | 600    |                 | Natural      |            | Polished   | -<br>Yes         |
| 6. Wexford       | 1.0    | -                       | Sand                 | - 8               | 600          | 800    | Agricul.  | Natural      |            | 11              | -                |                         |                 |               | on<br>brown |                   |              |        |                 |              |            |            |                  |
| 5. Waterford     | . 1'5  | -                       | Clay                 | 4                 | 300          | 600    | Mixed     | Artificial   | Artificial |                 | Yes              |                         |                 |               | stone       |                   |              |        |                 |              |            |            |                  |



#### TABLE B<sub>1</sub>.

SUMMARY OF TABLE B.

DIVISION I.—"BETTER."

|                | er.                    | Me<br>eleva            | an<br>tion.                     | So                     | il.                    | Ho                     | urs<br>side.                    | Day s                  | space.                          | Night                  | space.                          |                    | aracter<br>opulation   |                  | Ventil                | ation.           | Hea                   | ting.                 | Fle                    | oor.             | Mi               | lk.                    |
|----------------|------------------------|------------------------|---------------------------------|------------------------|------------------------|------------------------|---------------------------------|------------------------|---------------------------------|------------------------|---------------------------------|--------------------|------------------------|------------------|-----------------------|------------------|-----------------------|-----------------------|------------------------|------------------|------------------|------------------------|
| ASYLUMS.       | Numbe                  | Number of asylums.     | Eleva-<br>tion.                 | Good.                  | Bad.                   | Asylums.               | Mean<br>hours,                  | Asylums.               | Cubic<br>space.                 | Asylums.               | Cubic<br>space.                 | Agricul-<br>tural. | Mixed.                 | Urban.           | Natural.              | Artificial.      | Fires.                | Artificial.           | Polished.              | Scrubbed.        | Steri-<br>lised. | Not.                   |
| English county | 26<br>6<br>5<br>8<br>4 | 11<br>4<br>2<br>7<br>1 | 164<br>230<br>300<br>396<br>300 | 20<br>3<br>5<br>3<br>2 | 6 3 - 4 2              | 22<br>5<br>5<br>6<br>3 | 6.5<br>7.0<br>5.8<br>6.3<br>7.0 | 22<br>4<br>3<br>6<br>4 | 493<br>502<br>640<br>434<br>477 | 22<br>4<br>4<br>7<br>4 | 636<br>600<br>824<br>830<br>716 | -<br>-<br>1<br>1   | 10<br>—<br>1<br>5<br>2 | 5<br>6<br>1<br>1 | 7<br>2<br>1<br>6<br>2 | 9<br>2<br>3<br>— | 6<br>-<br>2<br>-<br>1 | 13<br>3<br>3<br>4     | 16<br>5<br>2<br>5<br>3 | 2<br>1<br>—<br>— | 7<br>1<br>1<br>— | 13<br>3<br>4<br>3<br>2 |
| Total          | 49                     | 25                     | 260                             | 33                     | 15                     | 41                     | 6.6                             | 39                     | 498                             | 41                     | 691                             | 13                 | 18                     | 14               | 18                    | 15               | 9                     | 24                    | 31                     | 3                | 10               | 25                     |
|                |                        |                        |                                 |                        |                        |                        |                                 | Divis                  | SION II.                        | —" W                   | DRSE."                          | ÷                  |                        |                  |                       |                  |                       |                       |                        |                  |                  |                        |
| English county | 23<br>4<br>2<br>2<br>3 | 11<br>1<br>-<br>2<br>1 | 263<br>28<br>—<br>325<br>300    | 6<br>-<br>-<br>-<br>2  | 16<br>4<br>2<br>2<br>1 | 20<br>4<br>1<br>2<br>2 | 6·3<br>6·25<br>5<br>4·5<br>3·5  | 18<br>3<br>-<br>2<br>3 | 490<br>564<br>—<br>480<br>346   | 19<br>3<br>1<br>2<br>3 | 630<br>717<br>500<br>760<br>575 | 5 - 1 3            | 10<br>-<br>2<br>1      | 8<br>4<br>-<br>- | 18<br>1<br>1<br>—     | 3<br>1<br>1<br>2 | 8<br>1<br>—           | 9<br>2<br>-<br>1<br>3 | 14<br>2<br><br>2<br>2  | 4<br>-<br>-<br>- | 4<br>1<br>2<br>— | 14<br>3<br>-<br>1      |
| Total          | 34                     | 15                     | 273                             | 8                      | 25                     | 29                     | 5.8                             | 26                     | 481                             | 28                     | 638                             | 9                  | 13                     | 12               | 21                    | 9                | 10                    | 15                    | 20                     | 4                | 8                | 19                     |

TABLE C.

Showing the relation of admitted to total cases dying of Tubercular disease in 1899, English County and Borough Asylums.

|   |            | I.<br>verage n<br>ident, 18 |            |            | II.<br>tted Tub<br>s died in |         | III.<br>Total Tubercular cases<br>died in 1899. |      |        |  |
|---|------------|-----------------------------|------------|------------|------------------------------|---------|---|------|--------|--|
|   | М.         | F.                          | Total.     | M.         | F.                           | Total.  | M.  | F.   | Total. |  |
| 30 Asylums,<br>with rate not<br>exceeding 2       | 12,646     | 17,304                      | 29,950     | 56         | 50                           | 106     | 214   | 256  | 470    |  |
| 24 Asylums<br>with rate<br>over 2'                | 11,001     | 12,098                      | 23,099     | 73         | 72                           | 145     | 399   | 361  | 760    |  |
| 9 (of above<br>24) with rate<br>over 3.           | 4,059      | 4,309                       | 8,368      | 30         | 25                           | 55      | 203   | 178  | 381    |  |
| 54 Asylums .                                      | 23,647     | 29,402                      | 53,049     | 129        | 122                          | 251     | 613   | 617  | 1230   |  |
|   |            | n III per<br>Column I       |            | Per r      | nille Res                    | sident. | Per mille Resident.                             |      |        |  |
| -   | M.         | F.                          | Total.     |            |                              |         |   |      |        |  |
| 30 Asylums .<br>24 Asylums .                      | 382<br>545 | 512<br>501                  | 443<br>524 | 4.4<br>6.6 | 2.0<br>6.0                   | 3.2     | 36·3<br>16·9                                    | 14.8 | 15.7   |  |
| 9 Asylums .                                       | 677        | 711                         | 693        | 7.3        | 5.8                          | 6.6     | 50.0  | 41'3 | 45'5   |  |
| 54 Asylums .                                      | 475        | 506                         | 481        | 5'4        | 4.1                          | 4.7     | 25'9  | 21'0 | 23.2   |  |
| 78 Asylums (including those in C <sub>1</sub> ) . | 459        | 499                         | 475        | 5'4        | 4.5                          | 4.8     | 24.8  | 20.8 | 22.7   |  |

## TABLE C1.

Showing the relation of admitted to total cases of Fatal Tuberculosis in 24 English, Scotch, and Irish Asylums not included in Table C.

|  | Total :           | I.<br>average<br>sident, 1 | number<br>899.    |                   | II.<br>tted tub<br>es died in |                   | III.<br>Total cases of Tuber-<br>culosis fatal in 1899. |                      |              |  |  |
|--|-------------------|----------------------------|-------------------|-------------------|-------------------------------|-------------------|---|----------------------|--------------|--|--|
|  | M.                | F.                         | Total.            | M.                | F.                            | Total.            | M.  | F.                   | Total.       |  |  |
| 17 Asylums with tuber- cular death- rate not ex- ceeding 2 per cent. (5 years' aver- age) 7 Asylums with rate over 2 per cent None of these exceed 3 per cent. | 4,893             | 4,034                      | 8,927<br>6,641    | 29<br>16          | 16                            | 45<br>32          | 75  | 46                   | 121,         |  |  |
| 24 Asylums .   | 8,268             | 7,300                      | 15,568            | 45                | 32                            | 77                | 178   | 149                  | 327          |  |  |
|  | Column            | III per<br>olumn I         | cent, of          | Per n             | nille Res                     | ident.            | Per mille Resident.                                     |                      |              |  |  |
|  | М.                | F.                         | Total.            | М.                | F.                            | Total.            | M.  | F.                   | Total.       |  |  |
| 17 Asylums .<br>7 Asylums .<br>24 Asylums .  | 258<br>644<br>395 | 287<br>644<br>465          | 269<br>644<br>425 | 5'9<br>4'7<br>5'4 | 4'0<br>4'9<br>4'4             | 5'0<br>4'8<br>4'9 | 15'3<br>30'5<br>21'5                                    | 11'4<br>31'5<br>20'4 | 13.0<br>31.0 |  |  |

## TABLE D.

# Effect of size of Asylum on Death-rate from Tubercle. (5 years' average.)

| Size of Asylums. |     | English Co<br>Asy  | unty a | nd Borough           |     | All Asylums in Tubercu-<br>losis Committee Report. |  |                            |  |  |
|------------------|-----|--------------------|--------|----------------------|-----|--|--|----------------------------|--|--|
|                  |     | No. of<br>Asylums. |        | T. rate<br>per 1000. |     | No. of<br>Asylums.                                 |  | T. death-rate<br>per 1000. |  |  |
| Under 300        | 100 | 5                  |        | 16                   |     | 13   |  | 11                         |  |  |
| 300 to 500       |     | 10                 |        | 20                   |     | 14   |  | 18                         |  |  |
| 500 to 700       |     | II                 |        | 22                   |     | 16   |  | 21.2                       |  |  |
| 700 to 900       |     | 11                 |        | 23                   |     | 14   |  | 22                         |  |  |
| 900 to 1100      |     | 9                  |        | 23                   |     | 10   |  | 23                         |  |  |
| Upwards .        |     | 13                 | ***    | 23                   | *** | 16   |  | 23                         |  |  |
| Totals and mean  |     | -                  |        | -                    |     |  |  | _                          |  |  |
|                  |     | 59                 |        | 22                   |     | 83   |  | 20                         |  |  |